

**PUBLIC
COMFORT
STATIONS**

**PUBLIC
BATHS**



**THE J. L. MOTT IRON
WORKS**

27

Public Comfort Stations

Public Baths



The J. L. Mott Iron Works

84-90 Beekman Street, New York

Branches

110 Fifth Avenue	New York	911 Locust Street	St. Louis
378 Boylston Street	Boston	Flood Building	San Francisco
1128 Walnut Street	Philadelphia	135 Adams Street	Chicago
Home Life Building	Washington, D. C.		

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Plate 9076-R

Exterior of Public Comfort Station, Saratoga Park, Brooklyn, New York

ONE of the greatest needs in all large cities of the United States, and, singularly enough, one which, although fully realized by city authorities has never, until within the last few years, received their serious attention, is that of public comfort stations. In Europe, the necessity for public comfort stations was realized many years ago and acted upon, the result being that in all the large cities a station is to be found in every square or section where large numbers of the population pass or congregate. London is a conspicuous example in this respect, the underground stations in Picadilly Circus, Oxford Circus, Trafalgar Square, Leicester Square, Holborn Circus, etc., being excellently planned and fitted up.

During the past few years, public comfort stations have been erected in New York, Boston and Detroit. These have been such a great success in every way, and have afforded accommodation to so many hundreds of thousands, that (at least so far as Greater New York is concerned) they will be followed by other stations until the entire city is provided for.

An economical feature and one that will commend itself to municipal authorities is that the public comfort stations are to a greater or less extent rendered self-supporting by the pay compartments. These usually contain a water closet, lavatory, clean towel and soap, the charge for their use being a nominal one of five cents. Such an arrangement, moreover, secures the user entire privacy.

With a more general understanding of the value of cleanliness as an agent in the prevention of disease, has come the demand for Public Bath Houses where persons not having the advantage of proper bathing facilities in the home may be accommodated at either a nominal cost or entirely free. The need and utility of such institutions have been thoroughly demonstrated by the great success and the large attendance at the public baths that have been erected in Greater New York.

The sanitary appliances in the public comfort stations and public baths thus far erected in the United States are almost exclusively of our manufacture, many of them having been especially designed for the purpose. Feeling assured that all large municipalities will be interested in this subject, we have prepared this catalogue showing the general arrangement and details of some of the best and most modern public comfort stations and baths. We shall be pleased to correspond with municipal authorities and others having in mind the erection of similar buildings, and shall be glad to furnish any further information which they may desire.

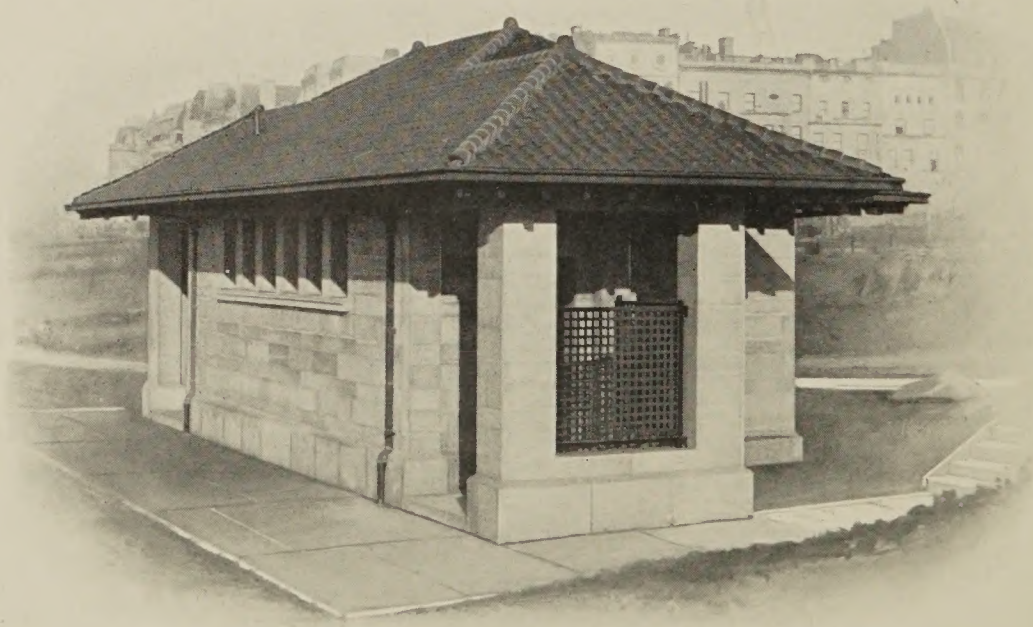


Plate 9077-R

Exterior of Public Comfort Station, Riverside Drive, New York City

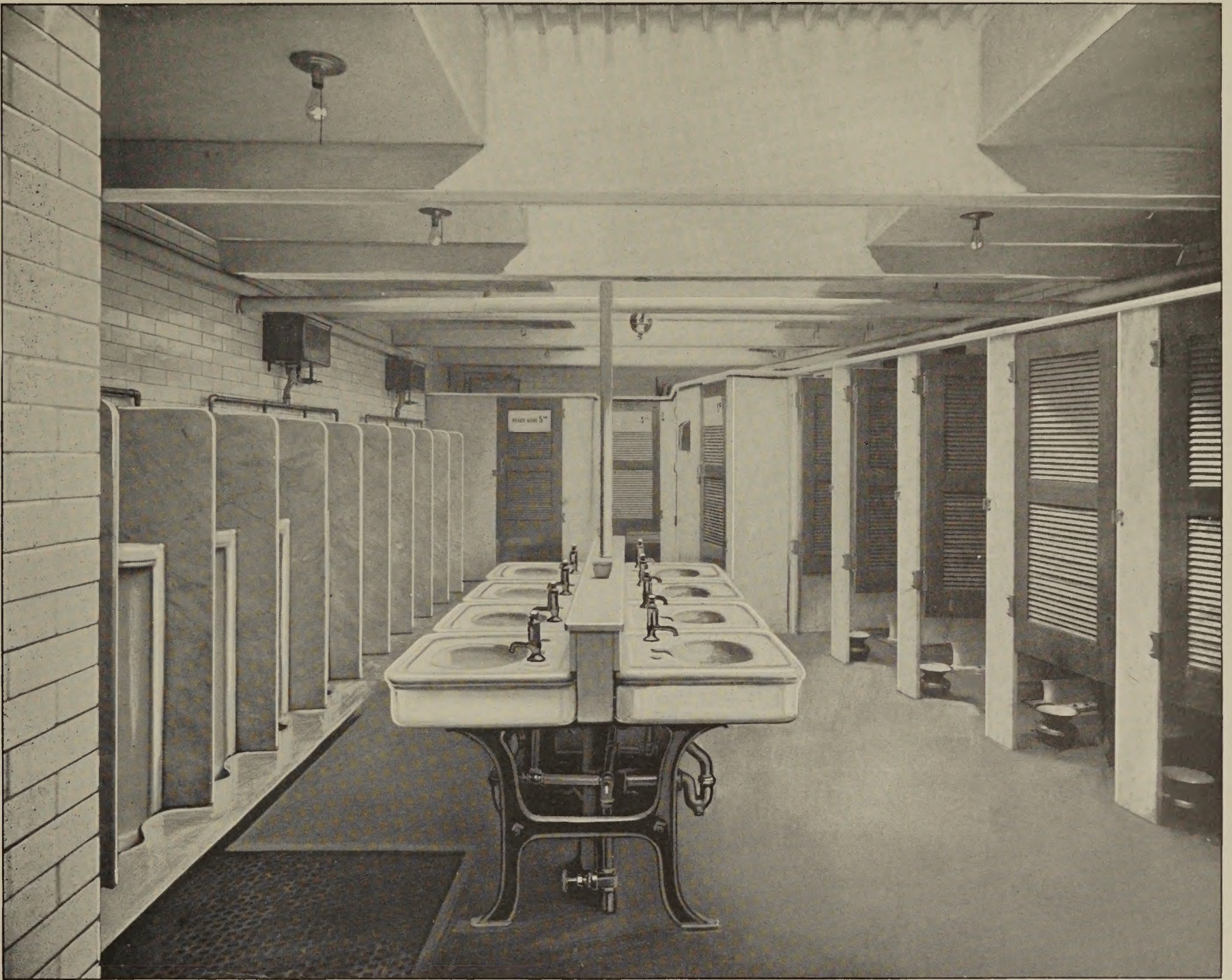


Plate 9078-R

General View of Men's Side of Public Comfort Station, Lorimer Street and Broadway, Brooklyn, New York

ONE of the most important considerations in the construction of buildings of this sort is the provision for their proper *heating and ventilation*. The *heating* can often be economically provided for where it is possible to locate the station near some large public building from which a supply of steam can be obtained. In most cases, however, it is necessary to install a separate boiler.

The usual method of *ventilation* consists of drawing fresh air from out of doors by means of an electrically-driven fan; the air after being tempered by passing over a coil of steam pipe, is conducted through ducts to various parts of the station, being discharged into the rooms through registers located near the ceiling.

To make more certain a positive change of air and its proper circulation, an exhaust fan is provided similar to the supply fan and connected to a system of ducts terminating in exhaust registers located in the back of the water closet stalls and near the floor. This fan draws out the vitiated air, discharging it outside the building.

Where the stations are located underground, two ornamental cast-iron shafts surmounted by electroliers are placed on the surface above the station, as shown on page 1. These act as air shafts, the supply fan being placed at the base of one and the exhaust fan at the other. The height of the opening in these shafts above the surface of the ground is such that a supply of pure air, free from dirt and dust of the street, is insured. Details and prices of these shafts will be furnished upon application.

Plumbing Fixtures.—Water closets, the “Torrento;” urinals, the “Sanito;” lavatories, the “Tremont” imperial porcelain. See subsequent pages for separate illustration.

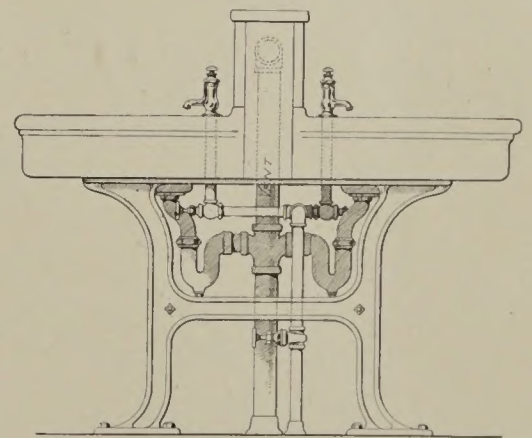


Plate 9079-R

Section showing Arrangement of Lavatories set Back to Back

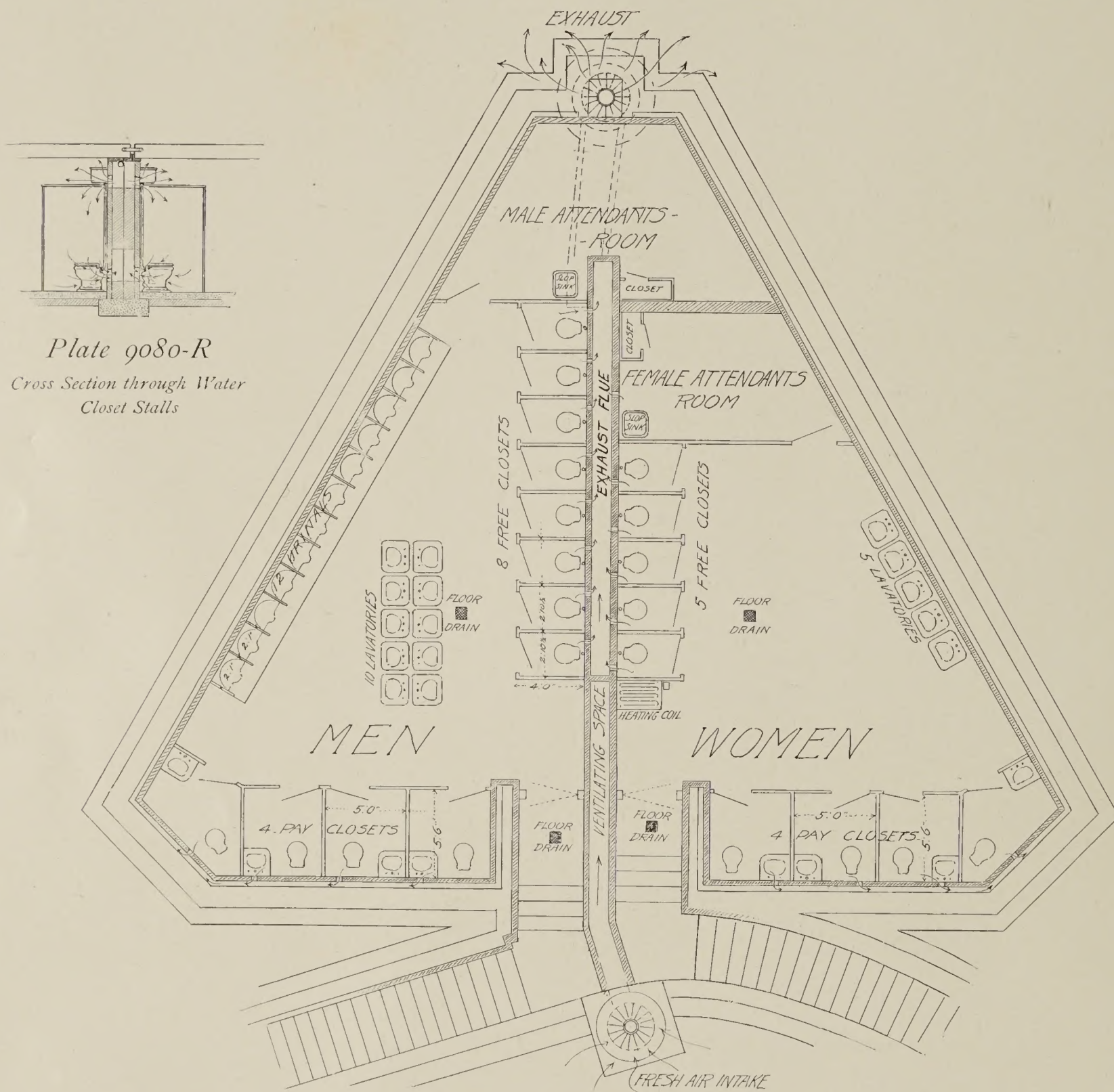


Plate 9081-R

Plan

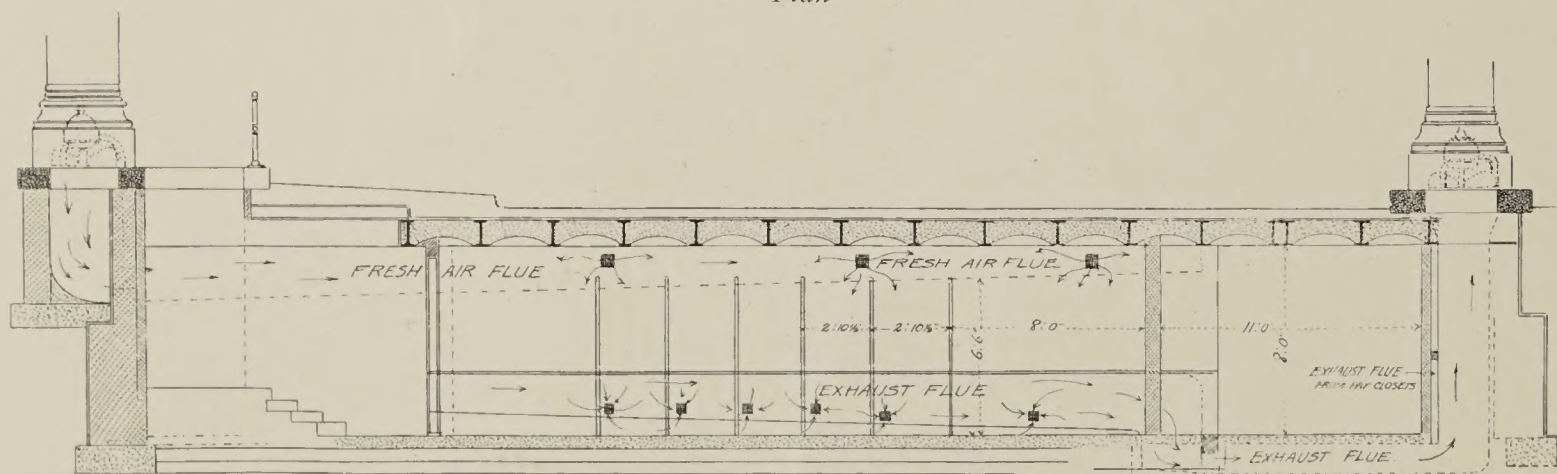


Plate 9082-R

Longitudinal Section

General Plan and Sections, Public Comfort Station, City Hall Square, Brooklyn, New York

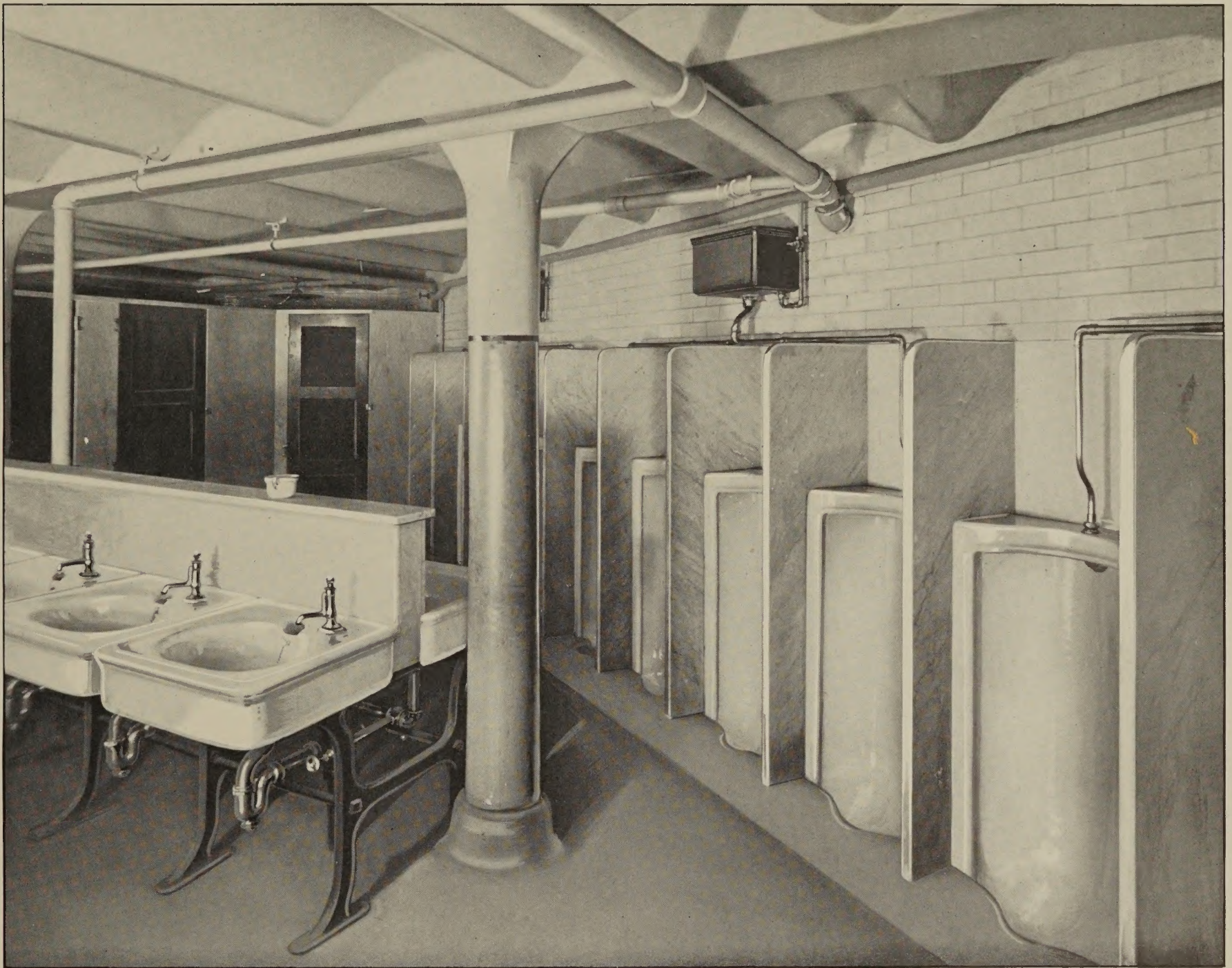


Plate 9083-R

*General View of Men's Side of Public Comfort Station, City Hall Square
Brooklyn, New York*

THIS station is located in the square near the Borough Hall, in Brooklyn, one of the busiest portions of the city. This particular station, which is open day and night, has averaged as high as 7700 persons daily, this number including men and women.

The urinals are our "Sanito" all-porcelain urinals, a fixture which above all others is adapted to the requirements of such a building. The urinals are made in several varieties, as may be noted in the following pages. There is absolutely nothing about them to get out of order. They are durable, absolutely non-absorbent, not affected in any way by uric acid, are in one solid piece with no joint, and are easily kept clean. The unqualified success which has attended the introduction of these urinals is the strongest recommendation which can be given them.

The flush for these urinals is automatic, the length of time elapsing between flushes being regulated at will by the attendant. Each time the cistern discharges, all parts of the urinal are thoroughly flushed, the proper distribution of the water being effected by the nickel-plated spreader.

Plumbing Fixtures.—Water closets, the "Torrento"; urinals, the "Sanito"; lavatories, the "Tremont" imperial porcelain. See subsequent pages for separate illustration.

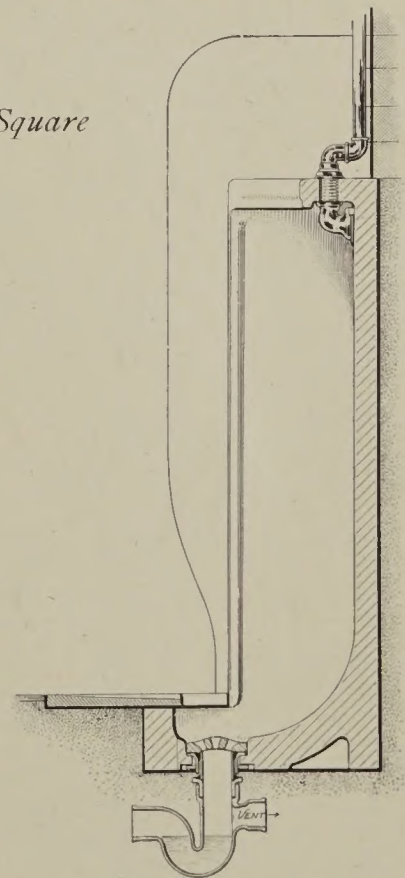
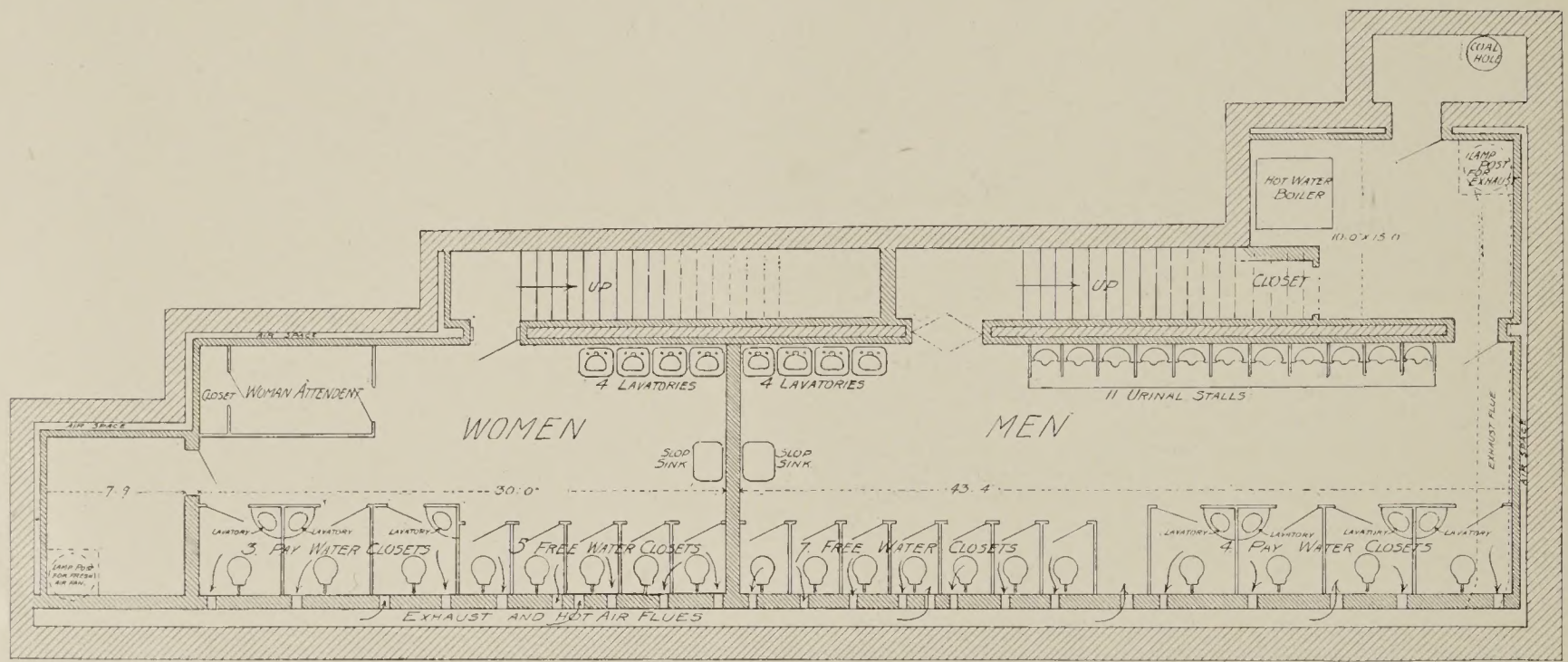


Plate 9084-R

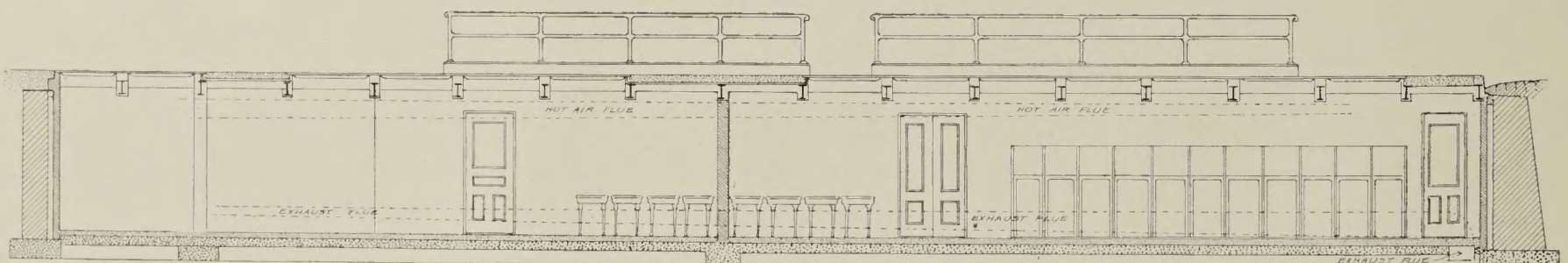
*Section of "Sanito" Urinal, showing
Method of Setting*

PUBLIC COMFORT STATIONS—PUBLIC BATHS



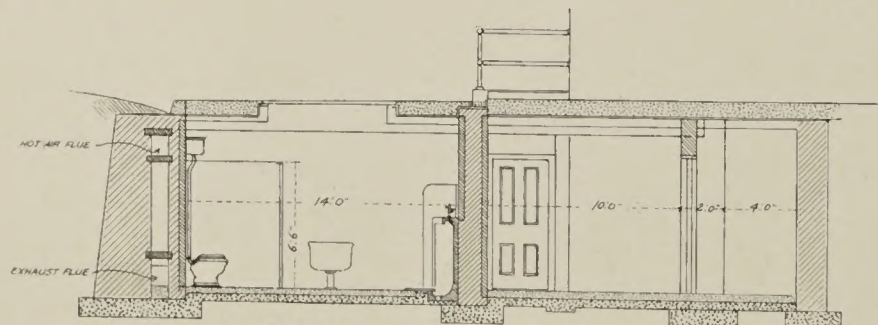
PLAN

Plate 9085-R



LONGITUDINAL SECTION

Plate 9086-R



CROSS SECTION

Plate 9087-R

General Plan and Sections, Public Comfort Station, corner Greenpoint and Manhattan Avenues, Brooklyn, N. Y.

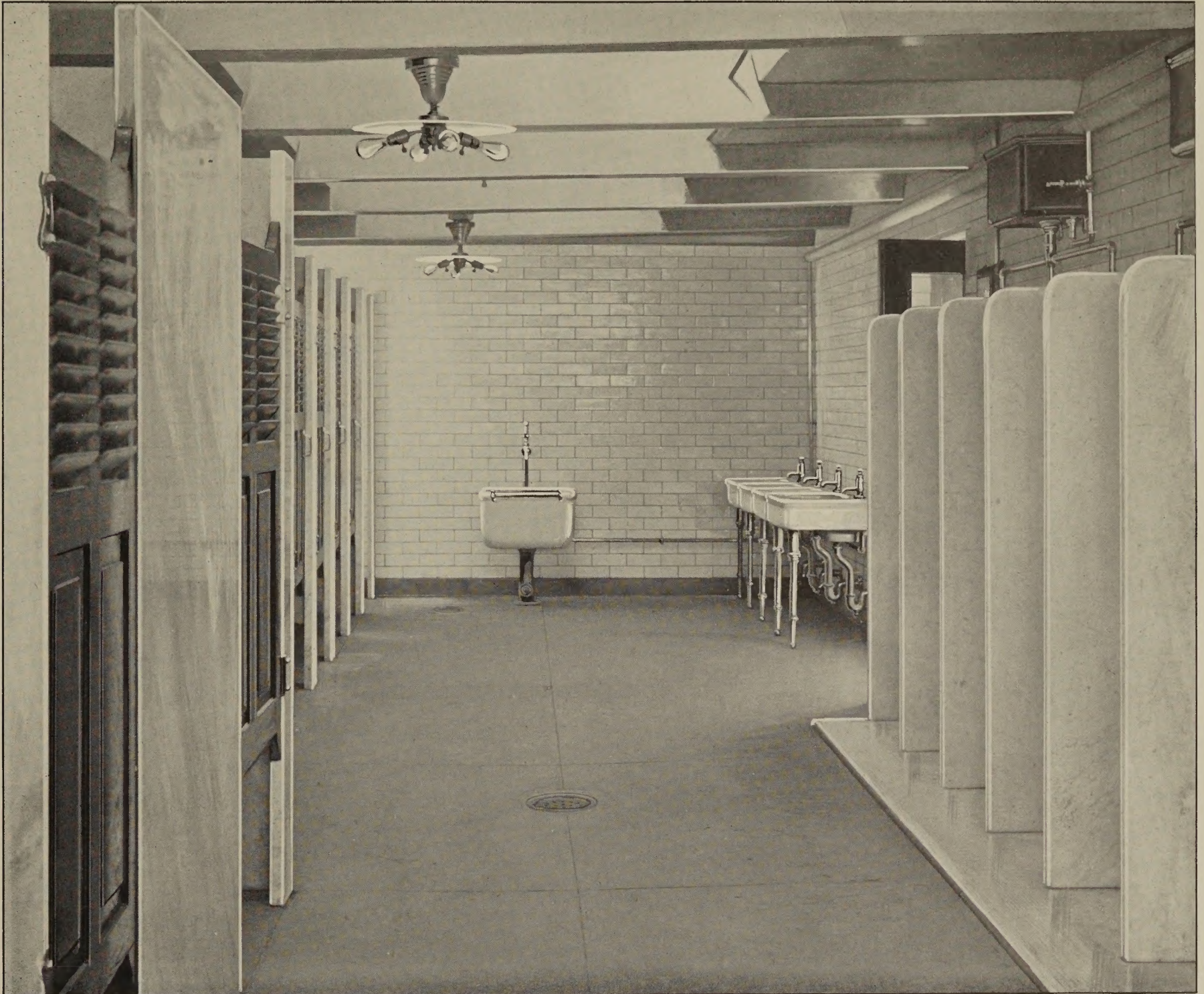


Plate 9088-R

General View of Men's Side of Public Comfort Station, Corner Greenpoint and Manhattan Avenues, Brooklyn, New York

A SLOP sink should always form a part of the equipment of a Public Comfort Station. The better the facilities for keeping such a building clean and neat, the greater the probability that such conditions will obtain. This is one of the strongest reasons for constructing the walls of such material as tile or enameled brick and the floors of asphalt or terrazzo. Another custom which has been found desirable in this connection is the grading of the floors, preferably toward the center of the rooms; where a floor drain or catch-basin similar to that shown on page 10 may be located. Such construction makes it feasible to flush not only floors but walls.

The pay closets are commonly equipped with a water closet, and lavatory with mirror as shown by Plate 9089-R, and the fee includes the use of soap and a clean towel. The fee charged is usually five cents.

Plumbing Fixtures.—Water closets, the “Torrento;” urinals, the “Sanito;” lavatories, the “Tremont” imperial porcelain. See subsequent pages for separate illustration.

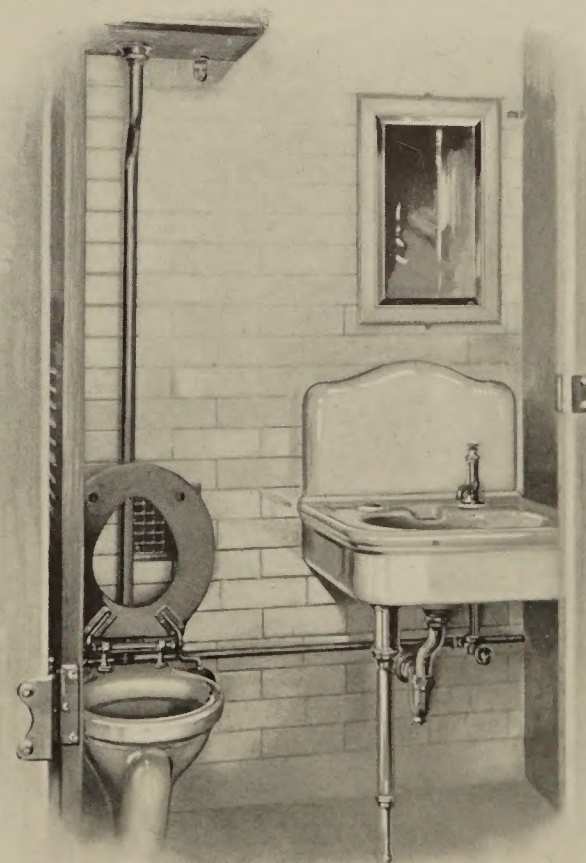


Plate 9089-R
Detail of Pay Closets

PUBLIC COMFORT STATIONS—PUBLIC BATHS

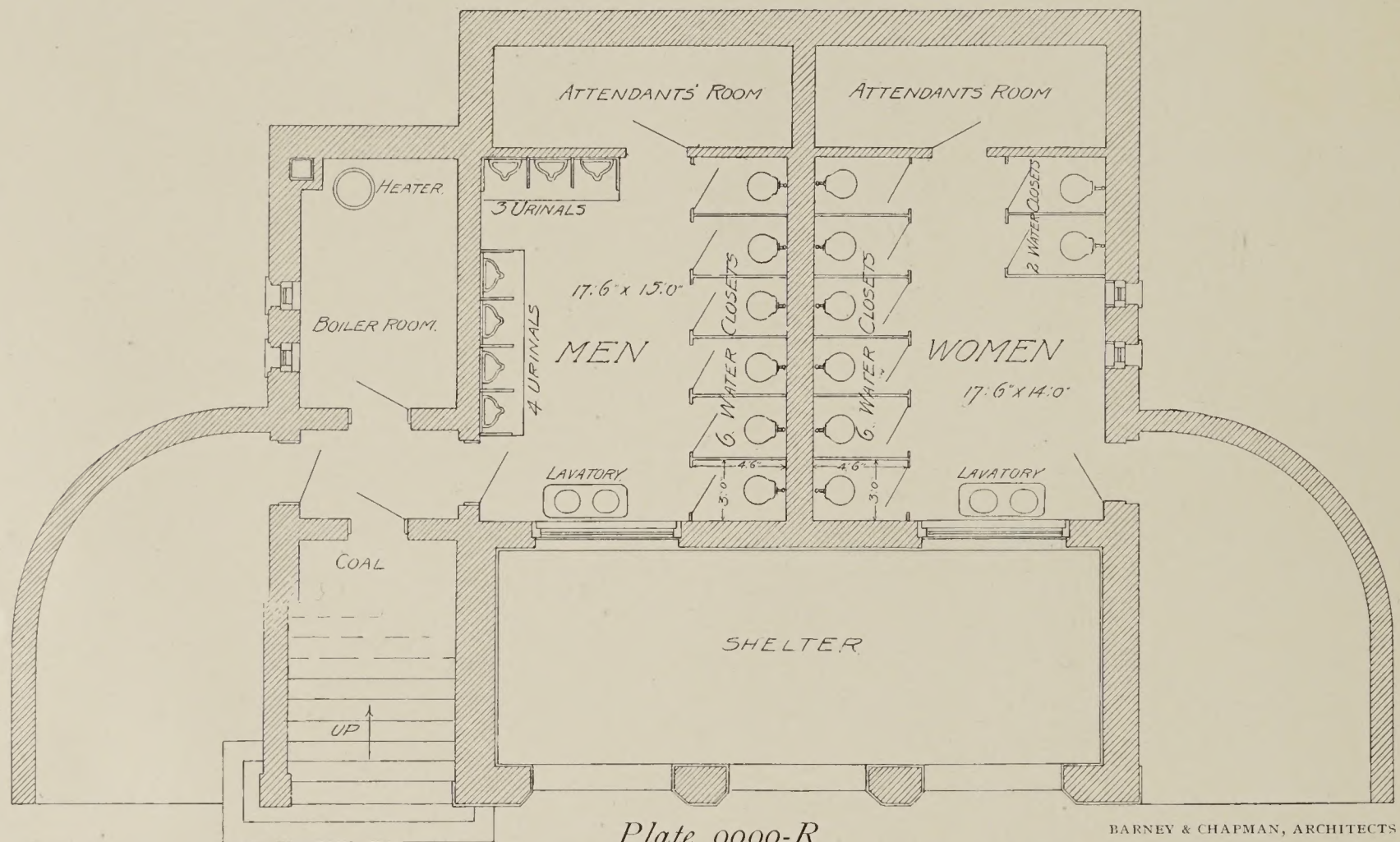


Plate 9090-R

BARNEY & CHAPMAN, ARCHITECTS

Plan of Public Comfort Station, Morningside Park, New York City

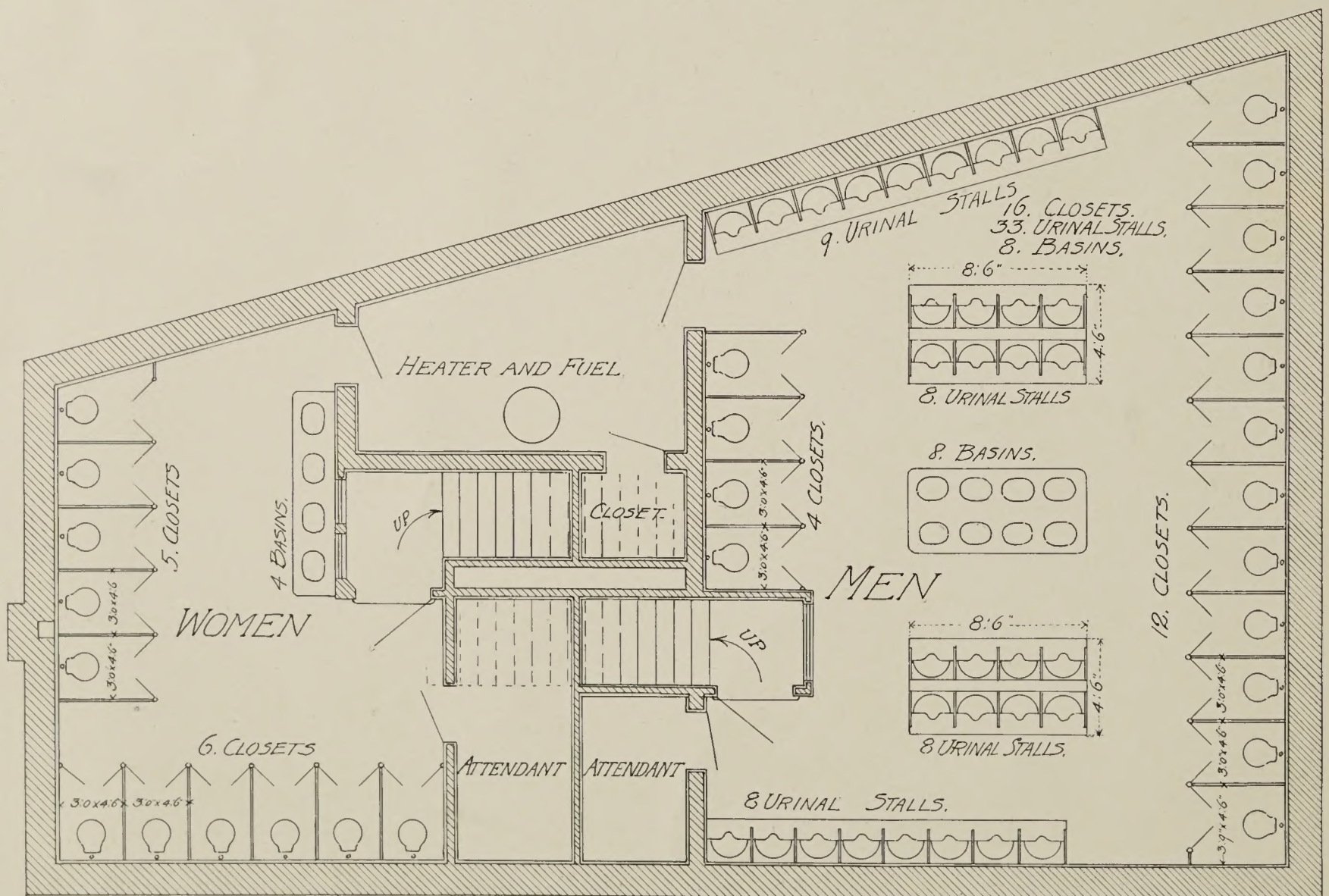


Plate 9091-R

RENWICK, ASPINWALL & OWEN, ARCHITECTS

Plan of Public Comfort Station, Longacre Square, New York City

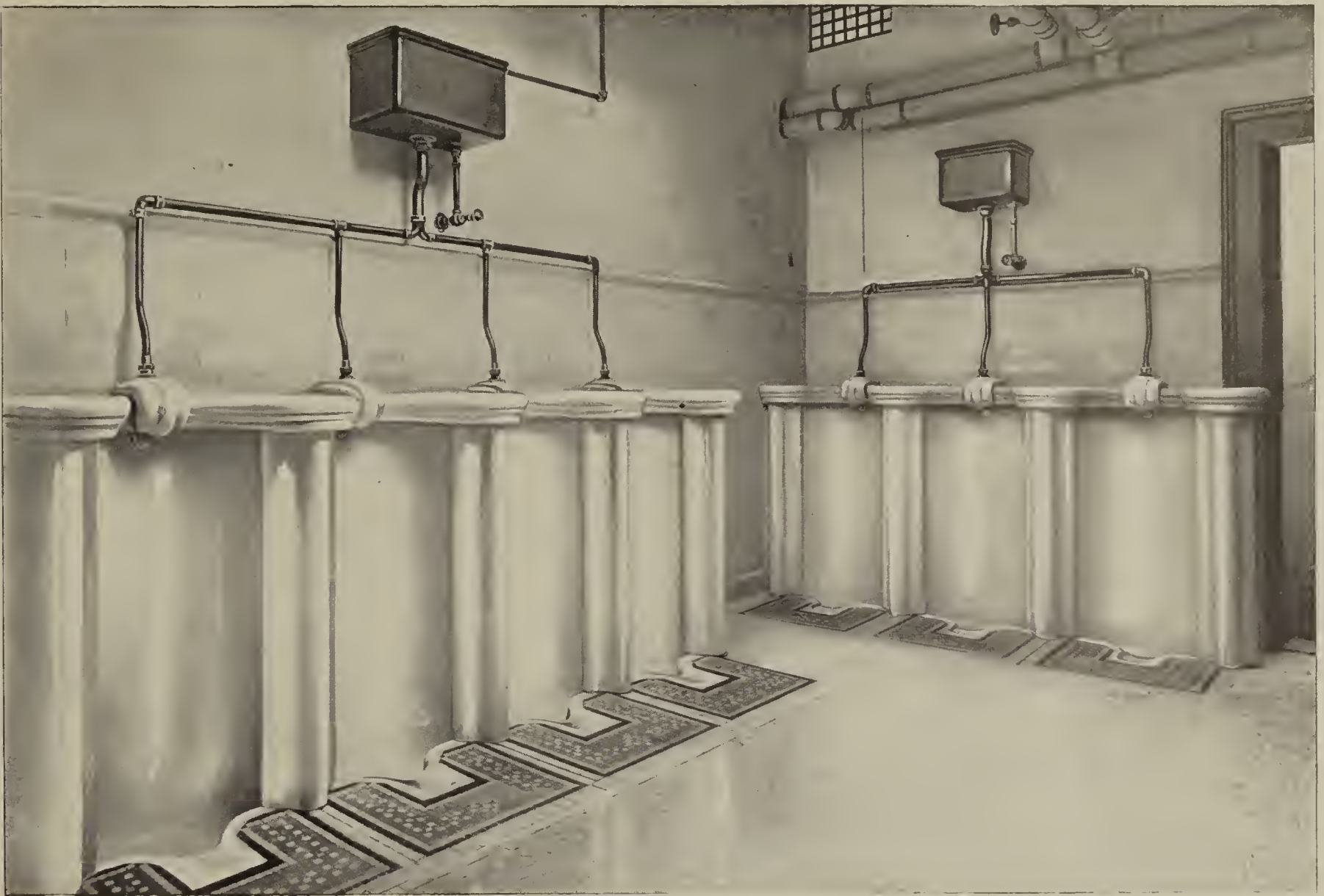


Plate 9092-R

General View of Men's Side of Public Comfort Station, Morningside Park, New York City

THAT a Public Comfort Station may be made attractive from an architectural point of view is clearly shown by the accompanying elevation of the station at Morningside Park as well as by the exteriors of the stations at Riverside Drive and Saratoga Park shown on other pages.

This fact will no doubt do away, in a great measure, with the objections sometimes raised that public urinals are necessarily unsightly.

Plumbing Fixtures—Morningside Park Station—Water closets, the "Torrento"; urinals, the "Eclipso"; lavatories, the "Tremont" imperial porcelain. Longacre Square Station—Water closets, the "Torrento"; urinals, the "Sanito"; lavatories, the "Tremont" imperial porcelain. See subsequent pages for separate illustration.



Plate 9093-R

Exterior of Public Comfort Station, Morningside Park, New York City



Plate 9094-R

General View of Women's Side of Public Comfort Station, Corner Liberty and Rockaway Avenues, Brooklyn, New York

THE lavatories used in this station are the "Tremont" imperial porcelain, fitted with the "Presto" slow-closing basin faucet and adjustable brass trap. The water closets are the "Torrento" wash-down syphon. All these fixtures are illustrated separately on subsequent pages.

Plate 9095-R.—The "Purita" combination floor drain and trap with flushing rim (cast brass with polished top) \$35 00

Dimensions: Length over all, 1' 1"; diameter of top, 11"; height, 9¾"; outlet, 3"; inlet to flushing rim, ¾"; inlet to trap, ⅜".

The "Purita" is an admirable floor drain embodying the latest and best sanitary developments. The flushing rim and jet thoroughly cleanse the interior of the floor drain and eject the sediment from the bottom of the trap. The trap is made of brass and will not corrode or rust. The trap can be flushed and cleaned without wetting the floor. The depth of seal is much greater than in the ordinary floor trap.

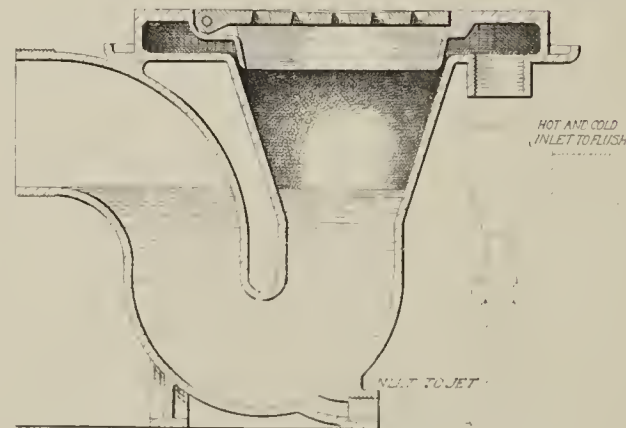


Plate 9095-R

Sectional View of the "Purita" Combination Floor Drain and Trap (Patented)



Plate 9096-R

General View of Men's Side of Public Comfort Station, Riverside Drive, New York City

IN the Public Comfort Station illustrated here, our "Syphono" imperial porcelain urinals are installed, the stall partition being of glass set in iron frames. The *partition frames* shown in this illustration are Mott's special adjustable pattern. It will be noticed that they are extremely simple in design, and are made in such a manner that they can be supplied to fit practically any dimension of partition desired. This fact will, we think, appeal to the architect, as with this style of frame he is not held down to stock sizes. Another advantage claimed for this style of frame is, that it is possible to insert or remove the partition slabs, which may be of slate, marble or glass, without taking down the frames. Details and prices of frames on application.

This station is built above ground. An exterior of this station is shown on page 2.

The experience of the authorities in charge of the public comfort stations and public baths here about has shown that the installation of drinking fountains in such buildings is not only desirable but imperative. The "Purita" fountain in its several forms, shown on page 15, does away with all the objections which have hitherto been encountered when installing such fixtures, namely, the danger of contagion when the same drinking cup is used by a large number of people, and the inconvenience arising from the fact that mischievous and meddlesome people are continually stealing such drinking cups. With the "Purita" fountains no drinking cup is necessary, one drinking directly from a bubbling jet.

Plumbing Fixtures.—Water closet, the "Torrento;" urinals, the "Syphono;" lavatories, the "Tremont" imperial porcelain. See subsequent pages for separate illustration.

PUBLIC COMFORT STATIONS — PUBLIC BATHS

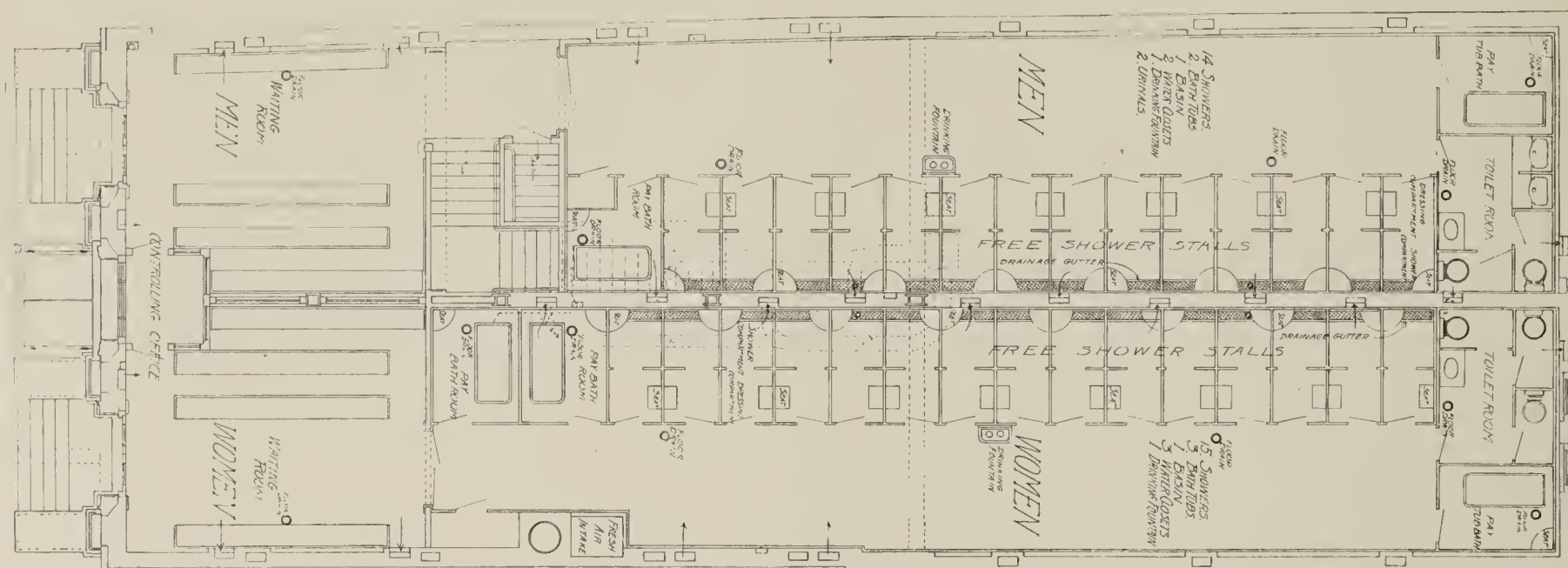


Plate 9097-R

AXEL S. HEDMAN, ARCHITECT

Plan of First Floor, Public Bath, Hicks Street, Brooklyn, New York

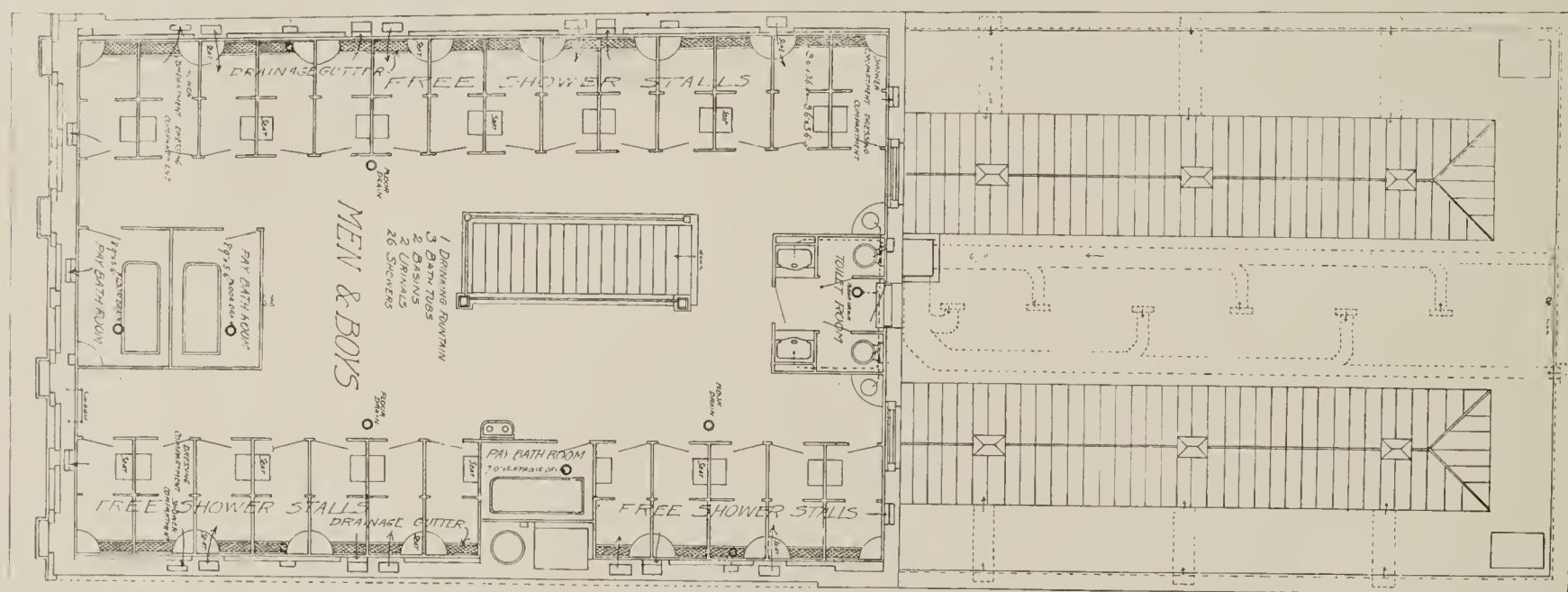


Plate 9098-R

AXEL S. HEDMAN, ARCHITECT

Plan of Second Floor, Public Bath, Hicks Street, Brooklyn, New York



Plate 9099-R

Detail of Pay Compartment



Plate 9100-R

Interior of a Public Bath



Plate 9101-R

*Interior, Men's Side, First Floor, Public Bath, Hicks Street
Brooklyn, New York*

THE individual shower stalls are generally divided into two compartments, one being used as a dressing room, supplied with seat and hooks on which to hang clothing, while the other is used for the bath proper and is equipped with a shower and seat.

The floors of these stalls are made of some of the numerous water-proof materials and are slightly graded for the purpose of drainage. This may be in the form of a single outlet for each stall, or of a gutter running the full length of a line of stalls. The gratings covering these gutters should of course be made removable.

The shower stalls in the bath house here illustrated are made 3' wide and 6' deep, the front half being used as the dressing compartment. The top of the dividing partitions, which are 7' high, is covered with a projecting shelf made of wire grating of sufficient width to prevent reaching over from one dressing compartment to the next.

Plumbing Fixtures.—"Torrento" water closets, "Sanito" urinals, "Tremont" imperial porcelain lavatories, "Lexington" porcelain-enameled iron baths and showers with adjustable heads. See subsequent pages for separate illustrations.

THE public bath house here illustrated was erected as a free institution, no charge whatever being made for the use of the regular shower stalls. A small admission is charged for the use of several private rooms fitted up with bath tub; clean towels and soap being included in the cost of admission.

Almost perfect ventilation for the building is obtained by the use of two fans; one situated in the basement, supplying fresh air, tempered by being passed over a steam coil, and the other located on the roof, exhausting the vitiated air from the building.

A copious supply of hot water can be obtained at any time, a Tobey heater being used for the purpose, obtaining its supply of steam from the boilers which also serve to supply steam for the heating of the building.

The popularity of the new bath house can be easily appreciated when it is known that during the first winter season of its existence, 1903-1904, the average daily attendance was 900. The total capacity of the bath house is 52 showers and 8 tubs. In rush hours the time allowance for a bath is 20 minutes.



Plate 9102-R

*Interior, showing Shower Compartment and Dressing Room
Public Bath, Hicks Street, Brooklyn, New York*

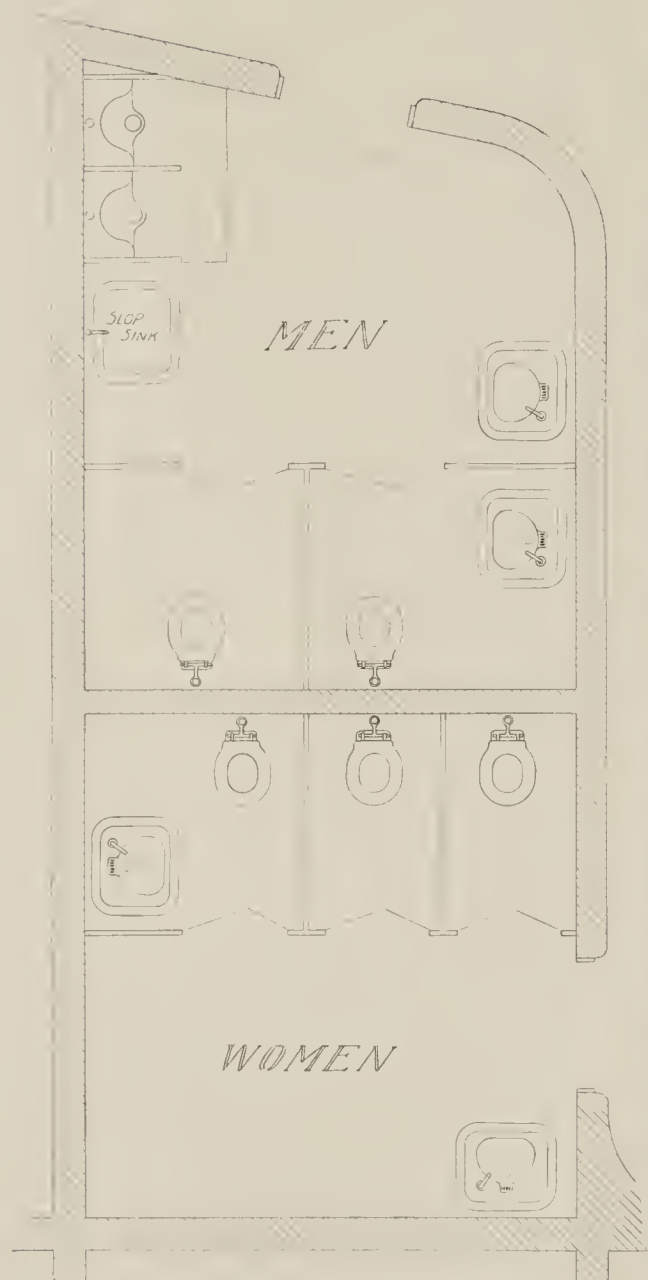


Plate 9104-R
Plan

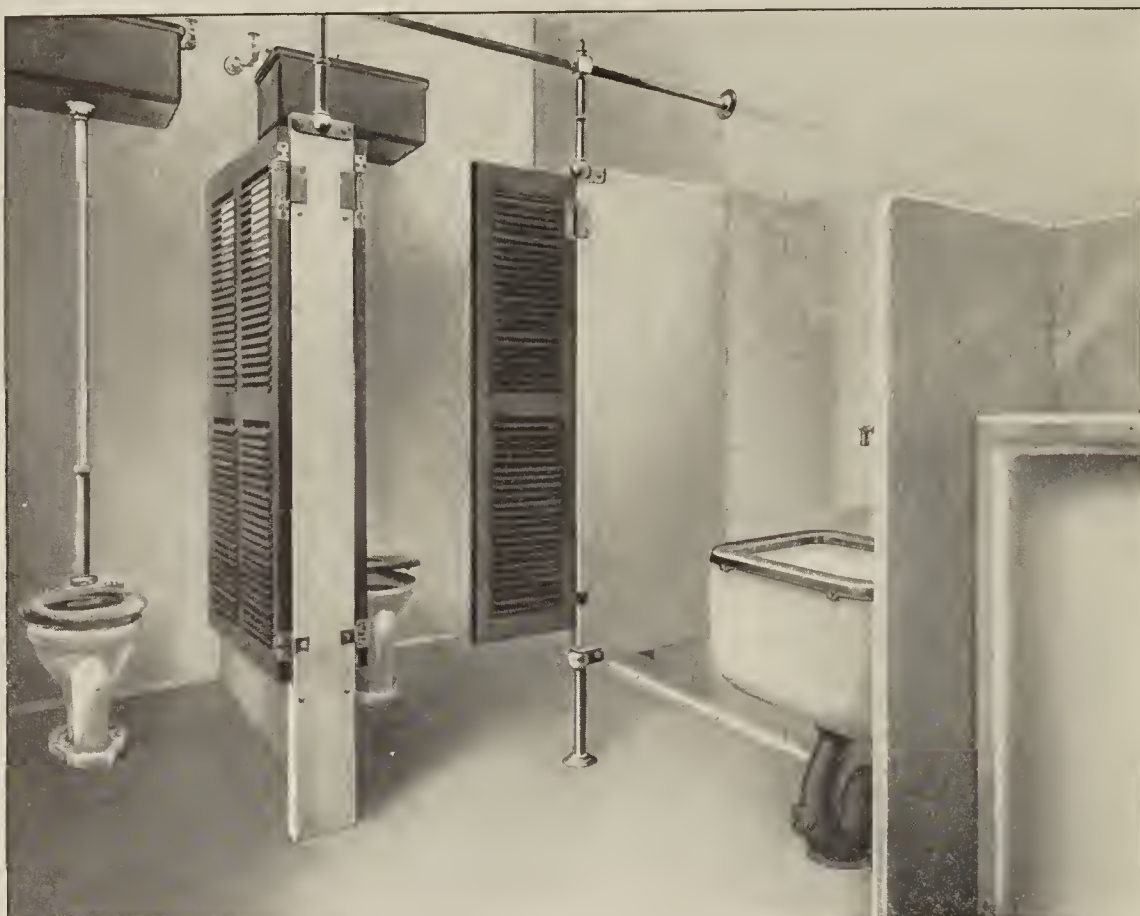


Plate 9103-R
Interior, Men's Toilet



Plate 9105-R
Exterior

Views of Public Toilets at Columbus Circle Station of the New York Subway

ONE of the most recent public conveniences is that built by the Rapid Transit Commissioners of New York City in their subway station at Columbus Circle, a plan of which is above shown.

The flooring of the toilets is of vitrified tile, while the walls are of glazed tile. All the partitions are of Italian marble.

The fixtures used in this station are our "Sanito" all-porcelain urinals, "Torrento" water closets, "Tremont" all-porcelain lavatories and all-porcelain slop sinks. These are all illustrated on the following pages.



Plate 9106-R

The "Purita" drinking fountain, with imperial porcelain bowl, crown white metal drinking cup, bronzed iron standard, nickel-plated regulating faucet and waste pipe to floor \$22 00
 If with self-closing regulating faucet . . . 24 50
 Dimensions: Height, 30"; diameter of bowl, 9"; diameter of waste pipe, 1½".



THE J. L. MOTT IRON WORKS N.Y.

Plate 9107-R

The "Glenwood" drinking fountain, comprising cast-iron painted roll-rim receptor with four nickel-plated bubbling cups, iron brackets, galvanized-iron supply pipe, nickel-plated brass waste coupling and adjustable nickel-plated brass trap \$33 00
 If receptor is galvanized 39 00
 If receptor is enameled 41 00
 If receptor is imperial porcelain 76 50
 If receptor is colonial ware 61 50
 * Dimensions: Length (outside) of iron receptor, 4' 6"; width outside, 12"; depth inside, 2"; distance from center to center of nozzles, 12".
 Length outside of porcelain receptor, 4' 6"; width outside, 17"; depth inside, 5¼"; distance from center to center of nozzles, 12".
 It will be seen that water enters the drinking cup through the controlling valve, which can be set so as to permit the water to bubble up in a small jet to the desired height. In this way one can drink of running water without using a cup.



Plate 9108-R

	Class A	Class B
Imperial porcelain recessed drinking fountain with nickel-plated brass lever handle self-closing faucet, waste strainer and coupling	\$39 00	\$25 25
Dimensions: Height, 27"; width, 18"; depth, 5".		



Plate 9109-R

	Class A	Class B
Imperial porcelain double drinking fountain with integral back, nickel-plated brass self-closing rabbit-ear faucets, waste strainer and coupling, adjustable trap for 1½" iron pipe, and galvanized iron brackets	\$49 00	\$34 00
Polished brass grating, as shown, extra, \$5.00.		
Dimensions: Height, 17"; width, 31"; depth, 12".		

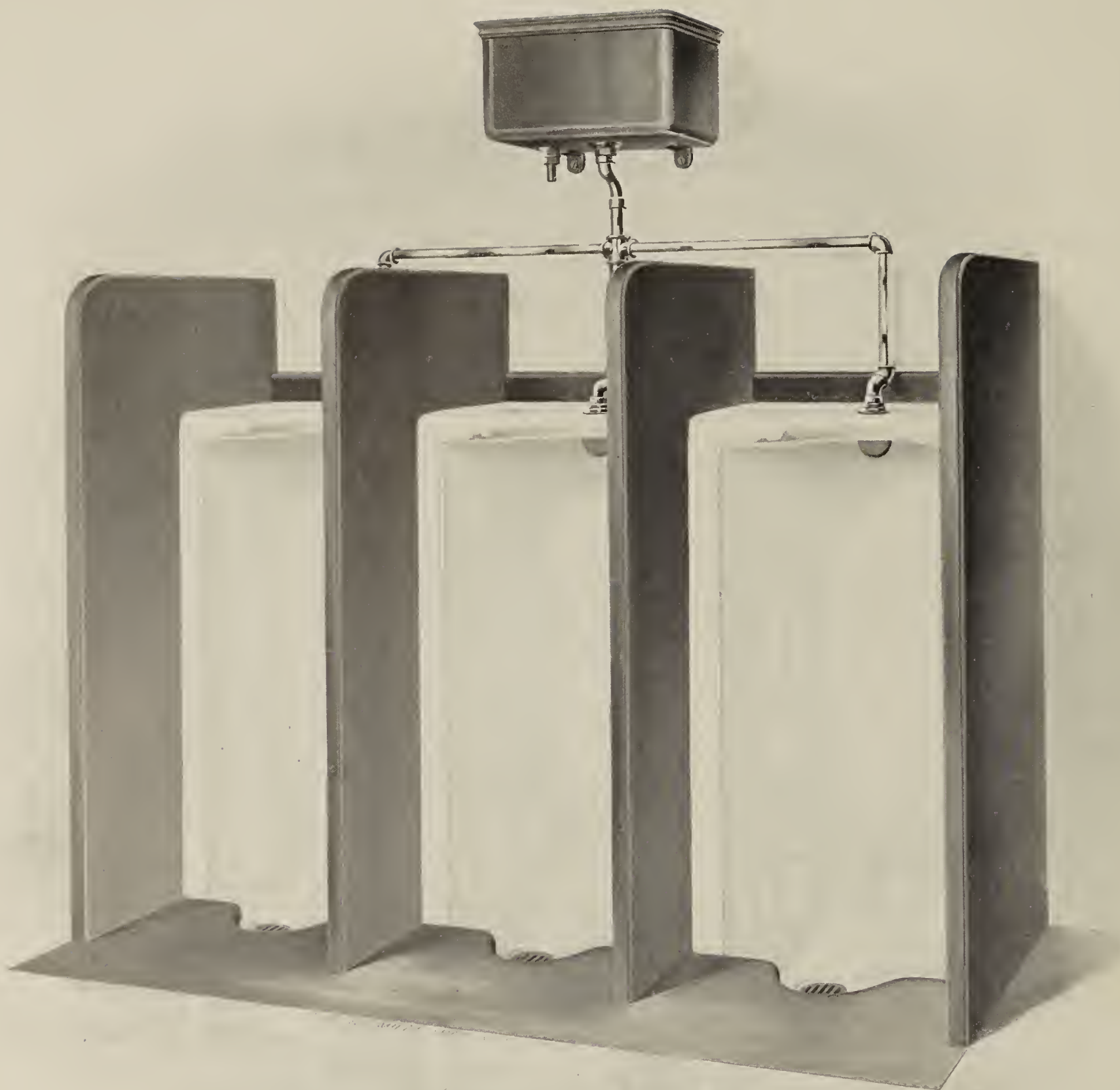


Plate 6067-R

The "Sanito" Imperial Porcelain and Colonial Urinals

PLATE 6067-R is an admirable combination in every way and will appeal to architects, sanitarians and plumbers. The all-porcelain feature of the "Sanito" urinal is clearly indicated by the illustration. The back, sides and bottom are of one solid piece of heavy glazed porcelain, non-absorbent and impervious to the action of urine. Each time the cistern discharges, all parts of the urinal are thoroughly flushed, the proper distribution of the water being effected by the nickel-plated brass spreader.

The installation of Plate 6067-R is exceedingly simple and inexpensive. The urinals are ground on both sides so that they fit tightly against the slate or marble partitions.

	Imperial Porcelain	Colonial
One "Sanito" urinal, with oak automatic flushing cistern, nickel-plated brass brackets, nickel-plated brass spreader and inlet coupling, and brass waste plug and coupling with removable porcelain grating	\$61 50	\$51 50
Add for each additional urinal	50 75	40 75
	Marble	Slate
Partition, back and floor slab, for one urinal	\$40 00	\$17 50
For each additional urinal, add	25 00	11 00

Piping from cistern to inlet coupling not included in price. If with enameled cast-iron trap as Plate 6069-R, add for each urinal, \$3.25.

Dimensions: Width of urinal, 2'; width from center to center of partitions, 2' 1"; height from floor to top of urinal, 3' 6"; height to top of partitions, 5'; depth of partition, 1' 9"; outlet, 3".



Plate 6068-R

ALL urinals should have a glazed surface. Those that do not have it, such as slate, soap-stone and marble, are more or less unsanitary. To keep a urinal clean and non-odorous is one of the most difficult problems in sanitation; it is simplified in the imperial porcelain because the urine strikes against an absolutely smooth, china-like glazed surface to which it cannot adhere.

Where the water supply is limited, the method of flushing shown by Plate 6068-R may be advantageously employed. The "Presto" flush valve is simple in construction and operation, and reliable in action where the water is not abnormally charged with grit, alkali, etc. The push button is china and is plainly marked PUSH. By a slight quick pressure upon this button, the valve is operated and the urinal flushed by a measured quantity of water.

	Imperial Porcelain	Colonial
Set of four double (two back to back) "Sanito" No. 2 urinals, with the "Presto" nickel-plated brass push-button flush valves, nickel-plated brass spreaders and inlet couplings, nickel-plated brass waste plugs and couplings with removable porcelain gratings	\$277 00	\$235 00
Add for each two additional urinals, as described	138 50	117 50
Slate middle and end partitions with backs and top capping for set of four urinals,	\$65.50.	
Slate for each two additional urinals,	\$23.50.	
Italian marble middle and end partitions with backs and top capping for set of four urinals,	\$184.50.	
Italian marble for each two additional urinals,	\$60.75.	
Enameled cast-iron trap as Plate 6069-R, extra for each urinal,	\$3.25.	

Plate 6068-R can be arranged to operate under a pull or automatic flushing cistern. Prices on application.

Dimensions: Height of partitions, 5' 6"; floor space required for set of four urinals, length, 5'; width, 3'; projection of lipped bases, 5".

The space of 7" between the urinals (covered by the top capping) is sufficient to install and get at the pipes.

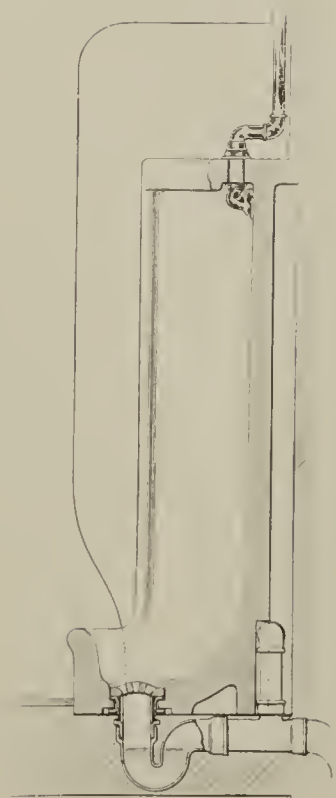


Plate 6069-R

*Section of the "Sanito" No. 2
Urinal*

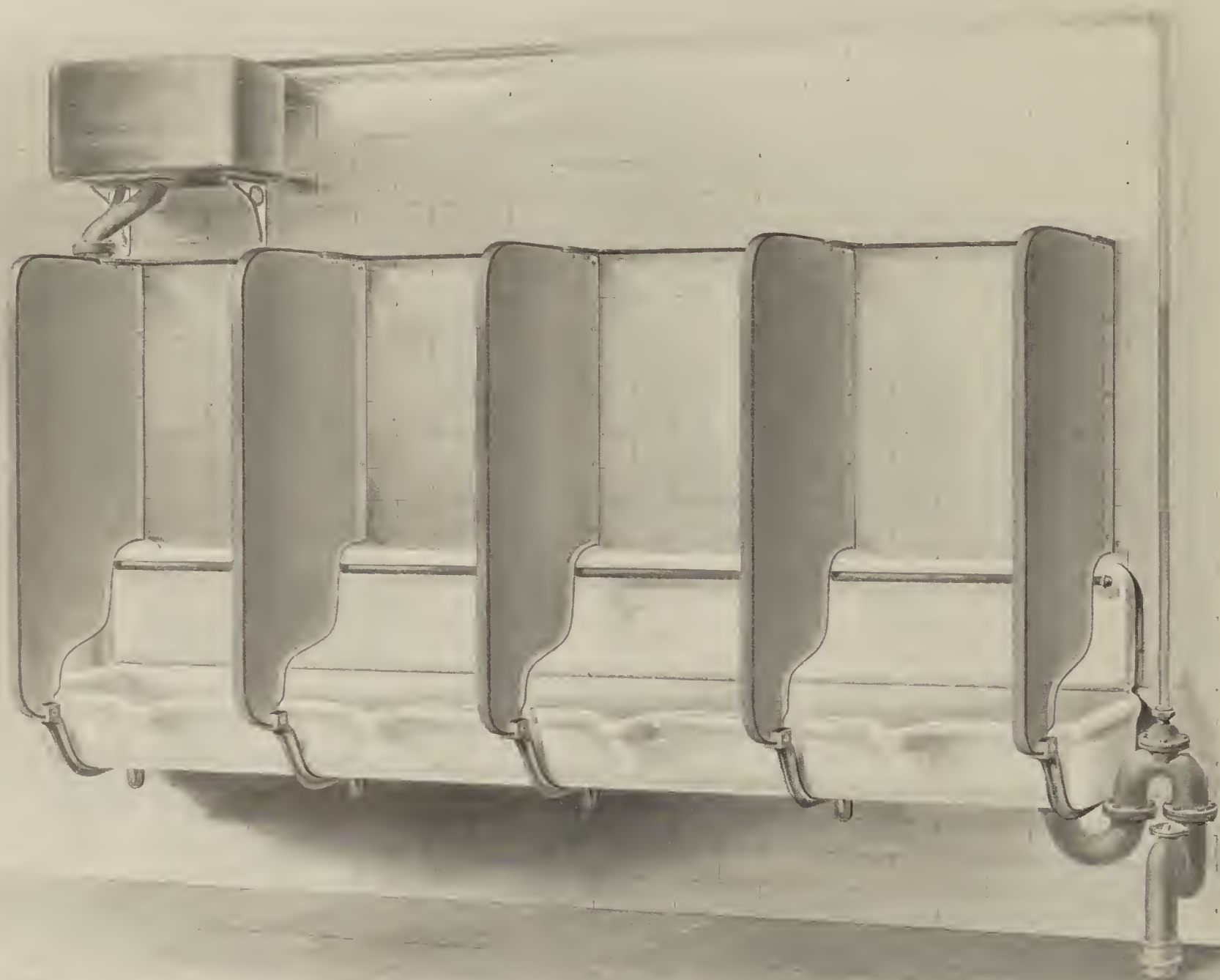


Plate 6070-R

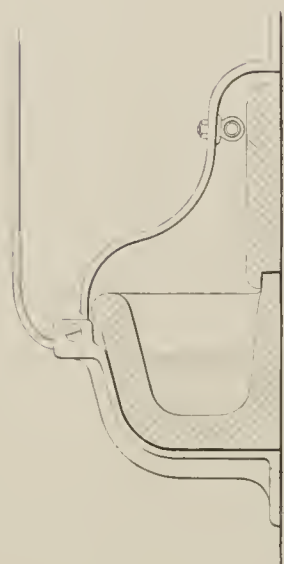


Plate 6071-R
Cross Section

THE "Syphono" makes a very satisfactory urinal at a moderate price. Being made of imperial porcelain or colonial, it has all the advantages claimed for the "Sanito" on this ground.

	Imperial Porcelain	Colonial
The "Syphono" Urinal, 4' long, and back, with nickel-plated brass perforated flushing pipe, nickel-plated brass waste strainer, oak automatic cistern with nickel-plated brass brackets, iron flush pipe from cistern to urinal, cast-iron double trap, and three painted cast-iron partitions and brackets	\$91 40	\$82 90
Add for each additional section 2' long, as described, including partitions	30 25	26 00

Operation: When the cistern automatically discharges, the contents of urinal are syphoned out and the entire urinal thoroughly flushed. Clean water to depth shown in section remains after each discharge of the cistern.

Dimensions: Length of each section, 2'; width from front to back, 14½"; depth inside, 7"; height of back, 15". The 4' urinal is made in one piece; the longer urinals are formed by adding the requisite number of 2' sections. Height to top of partition, 5' 9"; width of partitions from front to back, 1' 6"; height from floor to top of urinal, 2'.

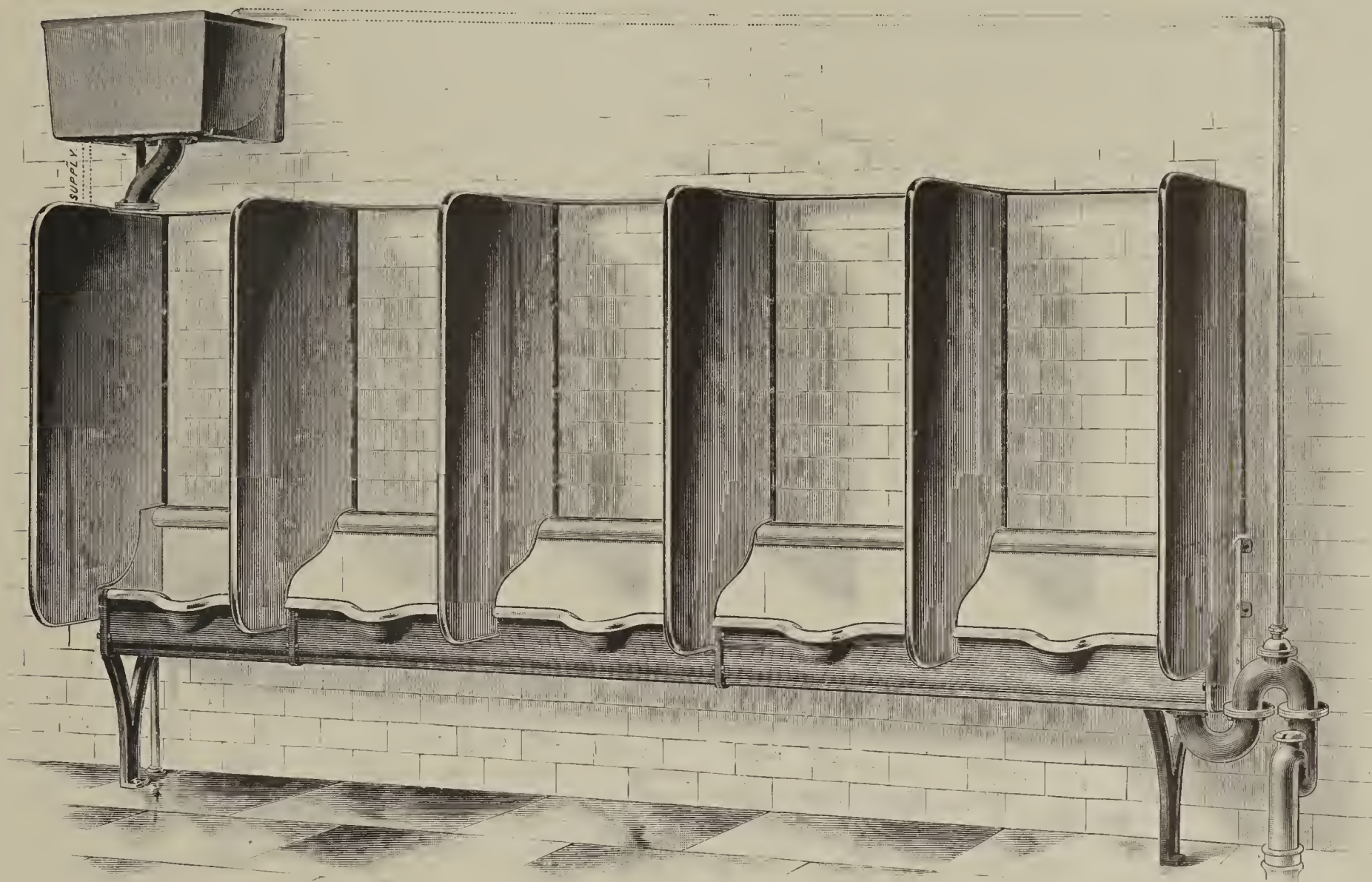


Plate 6072-R

THE "Beekman" is a most sanitary and complete urinal for use in public buildings where strength, durability, cleanliness and low cost are desired. In operation it is very simple. The cistern can be set to discharge at any interval desired, when every part of the urinal is thoroughly flushed. It is also complete in itself, requiring only connections to be made to the supply and waste pipes. One of the most important features, however, is that there is always a large body of water to receive and dilute the urine, thus avoiding the offensive odor arising from urine falling on a dry surface. The back of urinal (the part most likely to be soiled) is much higher than the front and has a perforated brass flushing pipe extending its entire length, which washes the back at each discharge of the cistern. The front rim in each stall is formed into a lip which prevents dripping on the floor.

The "Beekman" Automatic Syphon Lipped Urinal with Trap, Cistern,
Flush Pipe and Partitions

Length of Urinal Feet	Capacity of Cistern Gallons	Painted Urinal	Enameled Urinal	Length of Urinal Feet	Capacity of Cistern Gallons	Painted Urinal	Enameled Urinal
4	8	\$60 00	\$85 00	20	36	\$180 00	\$285 00
6	8	75 00	110 00	22	36	200 00	300 00
8	8	90 00	135 00	24	50	215 00	320 00
10	25	105 00	160 00	26	50	235 00	340 00
12	25	120 00	185 00	28	50	250 00	360 00
14	25	135 00	210 00	30	70	265 00	380 00
16	36	150 00	235 00	32	70	280 00	405 00
18	36	165 00	260 00				

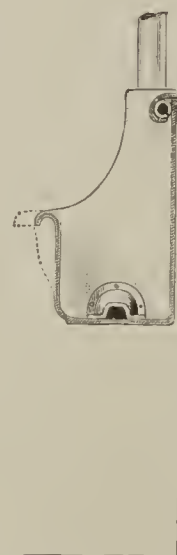


Plate 6073-R

The above prices do not include the wrought-iron air pipe from cistern to trap.

Plate 6072-R shows urinal with outlet at right. When ordering, state whether outlet is to be right or left.

Dimensions: Width of urinal to front of lip, 11"; depth, 6"; height to top of urinal at front, 2' 1"; height to top of back, 2' 9"; center to center of partitions, 24".

Cross Section showing Lip, and Flushing Rim which thoroughly washes the back of urinal each time cistern operates



Plate 5309-R

THE "Titan" water closet, made in our imperial porcelain ware, is one of the best closets yet designed for use in public places where such fixtures are liable to be subjected to more or less hard usage. Its general appearance suggests solidity and durability. The porcelain rim seat does away with all woodwork, which is a very important sanitary feature and also makes easy the work of cleaning.

The "Titan" imperial porcelain water closet with porcelain seat, No. 8 design L automatic oak cistern, nickel-plated brass flush pipe, brackets, and brass floor flange with porcelain bolt caps \$41 90

If with No. 58 cistern and "Presto" push-button flush pipe (see Plate 5310-R), add 2 50



Plate 5310-R

FOR those who desire a wood seat, the "Titan-Sano" will commend itself. The substitution of porcelain for wood in the front part of the seat is an important sanitary feature, preventing the soiling of the front of the seat and the floor. The closet is flushed by pushing the button, an excellent arrangement, where the regular pull and chain are liable to be wrenched off.

The "Titan-Sano" imperial porcelain water closet with heavy oak seat, nickel-plated brass "Presto" push-button flush pipe, No. 58 design L oak cistern, nickel-plated brass brackets, and brass floor flange with porcelain bolt caps \$52 90

If with No 8 automatic cistern (see Plate 5309-R), deduct 2 50



Plate 5311-R

LOCAL ventilation is sometimes provided for by placing a register at the back of each stall connecting with the exhaust ducts of the general ventilating system. A better way, and one favored by expert ventilating engineers, is to make the connection to the exhaust flues through the water closets direct, preventing the possibility of any odor escaping from the fixture by maintaining a continuous flow of the air through it. The above closet is designed for such a connection.

The "Titan" imperial porcelain water closet with imperial porcelain "Boston" vent, "Hygeia" oak seat, nickel-plated brass "Presto" self-closing push-button flush valve, and brass floor flange with porcelain bolt caps . \$51 65

If with No. 39 design L oak rubbed and polished cistern, nickel-plated flush pipe, brackets, chain and pull, same price.

When it is desired to apply local ventilation to a water closet, no arrangement yet devised is comparable to the "Boston" vent shown above. In the first place it is of adequate area; secondly, the construction is such that the vent is above the top edge of the closet, so that any overflow that may take place from stoppage in the closet is not forced into the vent pipe; thirdly, each time the closet is operated the vent pipe is flushed as well as the bowl.

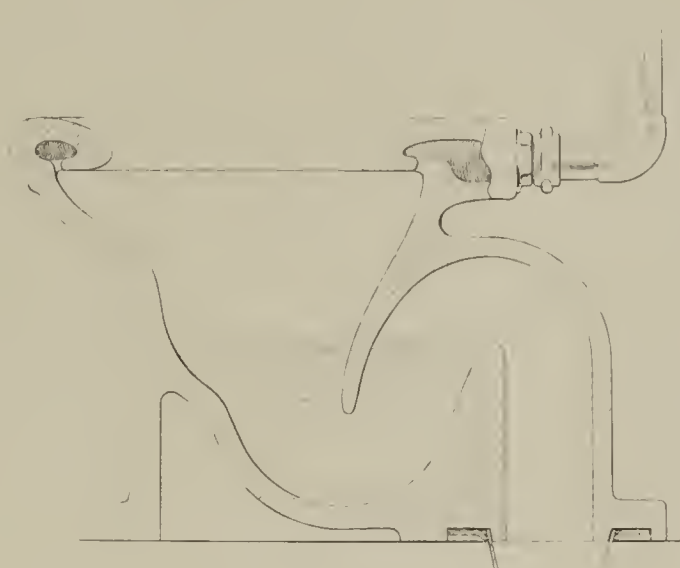


Plate 5312-R

Section of the "Titan" Wash-down Water Closet with All-porcelain Rim Seat

The "Titan" is a representative of the simplest type of water closet made, *i. e.*, the wash-down. The section clearly shows the simplicity of its construction, its strength being indicated by the special form given it and the thickness of the material. The water area is large (about 50 square inches) and so located that the soil will always fall therein.

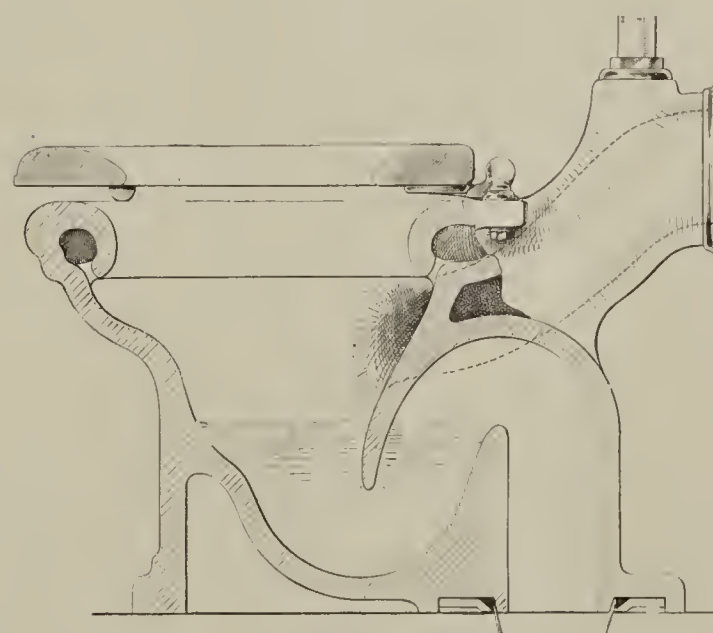


Plate 5313-R

Section of the "Titan" Wash-down Water Closet with "Boston" Vent



Plate 5314-R

THE "Torrento" represents a combination of the wash-down and syphon type of water closet. The jet extends down below the water line and causes syphonic action when the closet is operated. The rim of the closet is made extra thick and not liable, therefore, to be broken by slamming down the seat. This makes a first-class, inexpensive, yet good working closet and well adapted for use in public places.

The "Torrento" water closet (vitro-adamant), with "Hygeia" automatic oak seat, No. 38 design 1, oak cistern, nickel-plated brass flush pipe, brackets, rod and guide, brass floor flange and porcelain bolt caps . . . \$47 45

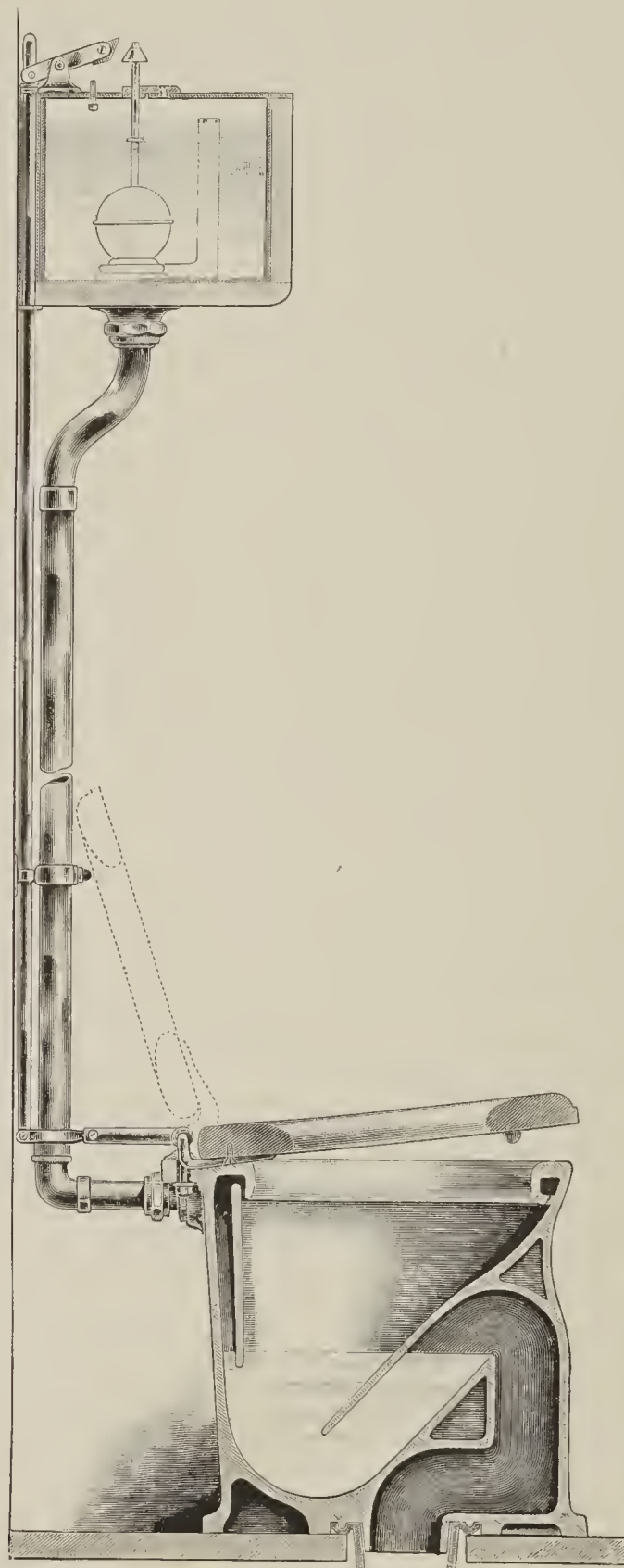


Plate 5315-R

Section of the "Torrento" Wash-down Syphon Water Closet

THAT automatic closets have not been more generally used in the past is due to the unsightly mechanism and their liability to get out of order. The "Torrento" automatic closet is simple in construction, easily operated and without strain. One of the most valuable features of this apparatus is the absence of parts which could be meddled with or get out of order.



Plate 5316-R

WHEN space is available at the back of the closets within which the tanks can be placed and wherein a horizontal soil pipe may be run, the "Akron" closet may be used. All exposed metal work connected with the fixture except the push button, which is set with its face flush with the wall, is done away with. All movable parts are placed behind the partition, leaving absolutely nothing which can be meddled with or get out of order.

The "Akron" imperial porcelain washdown water closet, with porcelain seat, No. 39 plain ash waste-preventing cistern, "Mansfield" push-button tank pull, japanned steel brackets, and brass outlet flange for screw connection \$42 35

If closet is colonial 36 85

If closet is vitro-adamant 47 35

If with brass outlet flange for lead connection, deduct . . . 1 50

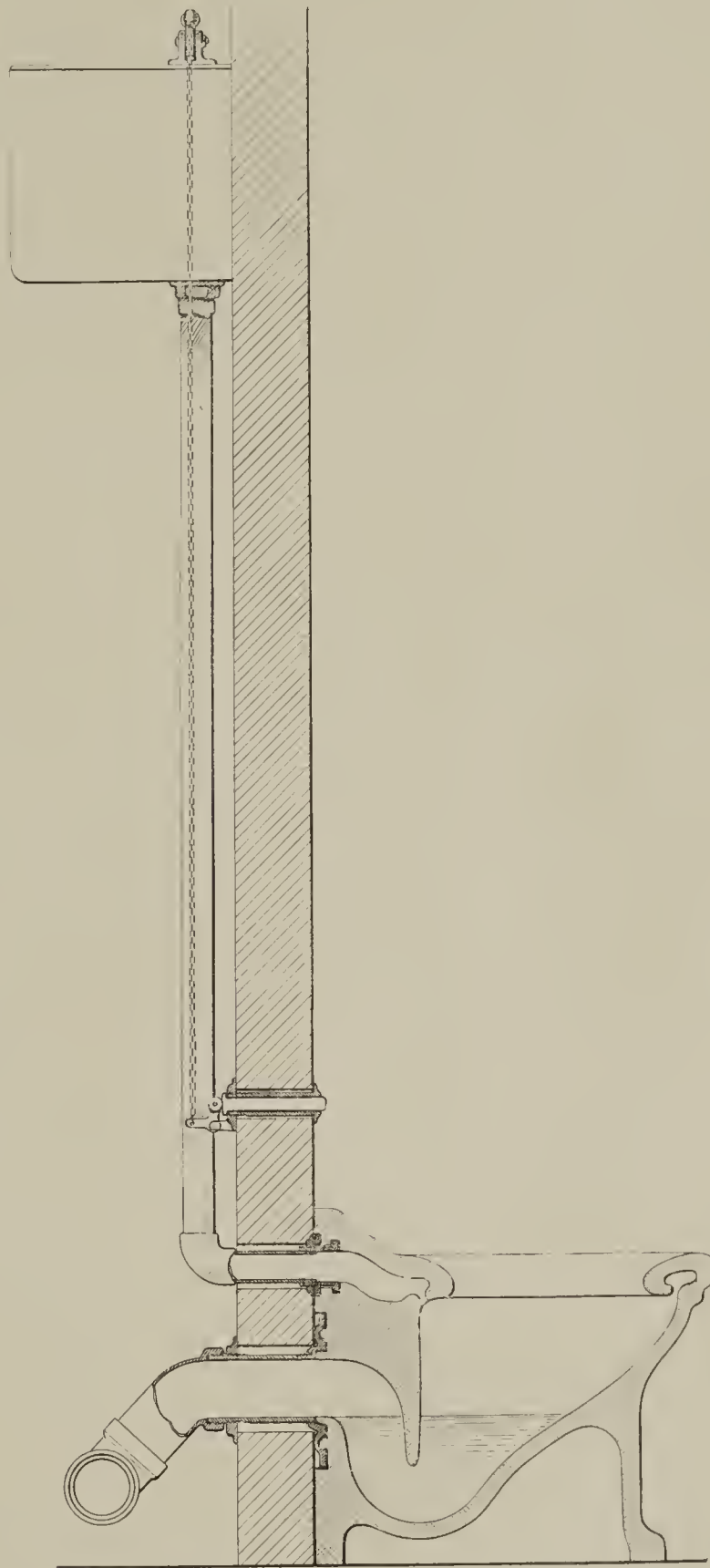


Plate 5317-R

Section of the "Akron" Wash-down Water Closet, showing Cistern Back of Partition

THE method used for making the connection at the back of the closet is clearly shown. When the push button is operated it actuates a short lever at the back of the partition which in turn pulls the chain connecting with the tank lever, thus starting the flush which empties the tank.

The imperial porcelain and vitro-adamant closets are glazed white outside and inside; the colonial are also glazed inside and outside, the color being a very light buff.

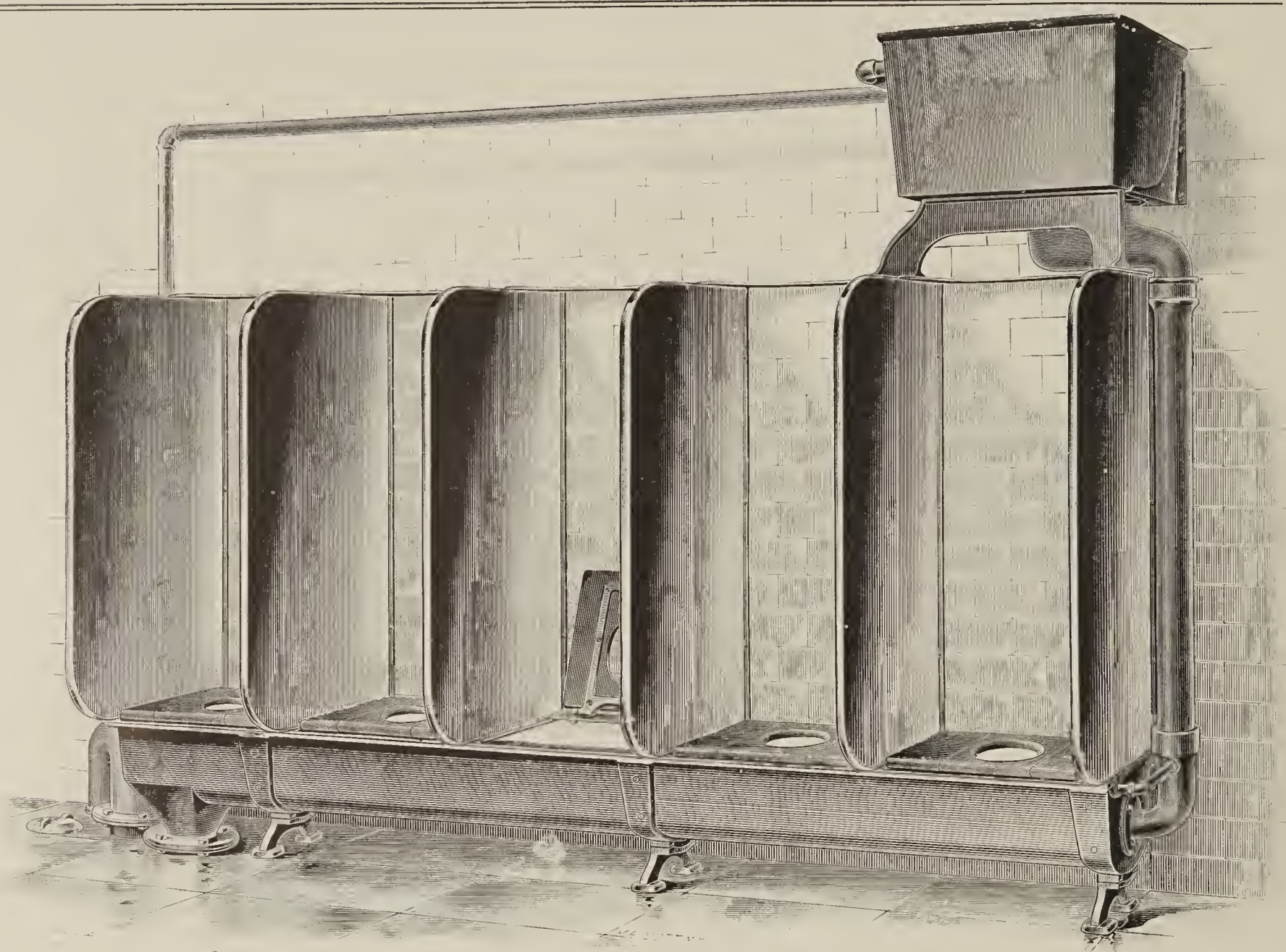


Plate 5318-R

Automatic Syphon Water Closet Range, with Perforated Flushing Pipes on Front and Back, Painted Iron Automatic Cistern with Cast-iron Flush Pipe, Hardwood Seats and Cast-iron Partitions

THE problem of constructing an automatic water closet range with a large deep body of water, and at the same time simple and reliable in action, has been solved in the above. The area and depth of water are sufficient to receive, submerge and deodorize the soil, thereby necessitating less frequent flushing than is required in the simple washout.

Mott's automatic syphon water closet range is extremely simple in operation, and there are no moving or mechanical parts liable to get out of order. When the cistern automatically discharges, the air is rarefied in upper trap; this starts a strong syphon and the contents of range are quickly and thoroughly drawn out, after which the range is filled to the normal level with clean water from the cistern, and is again ready for use. The cistern can be regulated to discharge at any desired interval.

Range as described	Painted Range	Enameled Range	Range as described	Painted Range	Enameled Range
3 Seats, each 24 inches	\$100 00	\$119 00	7 Seats, each 27 inches	\$181 50	\$230 50
4 " " 24 "	118 00	143 00	8 " " 27 "	201 00	257 00
5 " " 24 "	136 00	167 00	9 " " 27 "	220 50	283 50
6 " " 24 "	154 00	191 00	10 " " 27 "	245 00	315 00
7 " " 24 "	172 00	215 00	3 " " 30 "	106 50	129 50
8 " " 24 "	190 00	239 00	4 " " 30 "	127 00	158 00
9 " " 24 "	208 00	263 00	5 " " 30 "	147 50	186 50
10 " " 24 "	226 00	287 00	6 " " 30 "	168 00	215 00
3 " " 27 "	103 50	124 50	7 " " 30 "	188 50	243 50
4 " " 27 "	123 00	151 00	8 " " 30 "	209 00	272 00
5 " " 27 "	142 50	177 50	9 " " 30 "	235 00	305 50
6 " " 27 "	162 00	204 00	10 " " 30 "	255 50	334 00

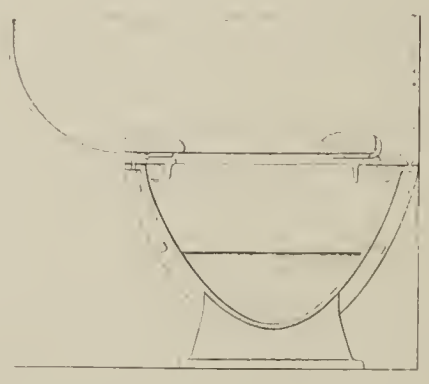


Plate 5319-R

Cross Section showing the Auxiliary Flushing Pipes which thoroughly wash the front and back of the range every time the Cistern operates.

If without partitions, deduct for each \$6. If without hardwood seats, deduct for each \$3.50. The above prices do not include the trap beneath the floor, nor the air pipe from cistern to trap. If with ventilating extension and collar, add \$7 for painted range and \$12 for enameled range. When ordering please state: 1st. Whether range is to be painted or enameled. 2d. The number of seats desired, and whether the length of each is to be 24, 27 or 30 inches. 3d. Is outlet of range to be at the left as shown, or at the right? Water closet ranges can also be furnished in imperial porcelain and colonial ware. Prices and illustrations on application.



Plate 9110-R



Plate 9111-R



Plate 9112-R



Plate 9113-R

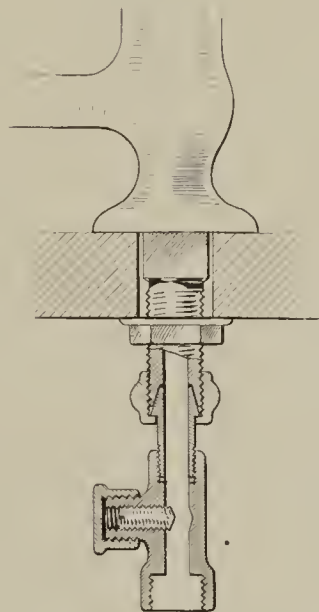


Plate 9114-R

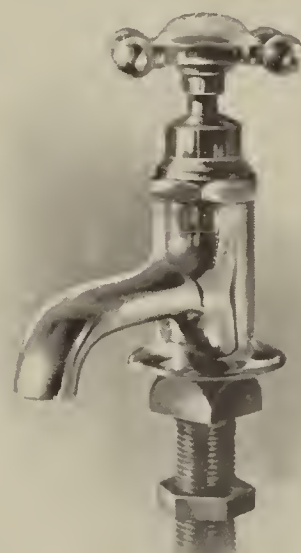


Plate 9115-R

Plate 9110-R—Mott's patent nickel-plated self-closing basin faucet with coupling for 1/4" iron pipe, each	\$4 00
If with coupling for 3/8" or 1/2" iron pipe, each	4 25
Plate 9111-R—Nickel-plated rabbit-ear self-closing basin faucet with coupling for 1/4" iron pipe, each	2 75
If with coupling for 3/8" or 1/2" iron pipe, each	3 00
Plate 9112-R—Nickel-plated "Syphono" self-closing basin faucet with coupling for 1/4" iron pipe, each	3 25
If with coupling for 3/8" or 1/2" iron pipe, each	3 50
Plate 9113-R—"Presto" nickel-plated automatic self-closing measuring and waste-preventing faucet, each	6 00
Plate 9114-R—Nickel-plated brass regulator for the "Presto" automatic basin faucet	1 00
This regulator is adapted for use when the water pressure is above 30 pounds. By turning the stop in the regulator, the volume or size of the flow may be governed.	
Plate 9115-R—Nickel-plated low-down self-closing basin faucet with china name-plates and coupling for 1/4" iron pipe, each	3 00
If with coupling for 3/8" or 1/2" iron pipe, each	3 25
Plate 9116-R—Nickel-plated low-down compression basin faucet with china name-plate, and couplings for 1/4" iron pipe	2 75
If with coupling for 3/8" or 1/2" iron pipe, each	3 00



Plate 9116-R



Plate 4152-R

Plate 4152-R

IMPERIAL porcelain lavatories make ideal fixtures for public use. The slab and basin are in one piece without joint. The material, besides being of a beautiful china white, is non-absorbent, unstainable and exceedingly strong and durable. The "Tremont" lavatory is designed to set clear of the wall, thus making it particularly adaptable when walls are of water-proof material. It is unlike all other kinds of lavatories.

	Class A	Class B
The "Tremont" imperial porcelain lavatory, 24" by 22", with "Hygeia" waste (plug and chain), iron legs painted white enamel, nickel-plated "Presto" automatic basin faucet with china name-plate, and nickel-plated brass adjustable trap	\$35 50	\$30 50
Same, 27" by 24"	40 25	33 00
If with porcelain-enameled iron legs, same price.		

The basin of the 24" lavatory is 18½" by 13"; of the 27" lavatory, 19" by 13½".

Plate 4153-R

ONE of the great advantages of these lavatories is their size, the basin being very large as compared with the area of the slab. This makes the lavatories well adapted for use where space is limited, as they occupy a minimum of space, at the same time giving a maximum of capacity.

	Class A	Class B
Imperial porcelain lavatory, the "Unitas," with "Hygeia" waste (plug and chain), imperial porcelain standard, nickel-plated compression low-down faucet with china name-plate, and nickel-plated adjustable trap	\$34 75	\$29 00
If with "Economic" trap, deduct \$1.25.		

Dimensions: Length, 24"; width from front to back, 22"; height of back, 7"; basin, 16" x 12".



Plate 4153-R

NOTE.—Any of the faucets shown on page 25 may be used with the above lavatories. Self-closing faucets or the "Presto" automatic are usually preferred for Public Comfort Stations.



Plate 4154-R

PLATE 4154-R is an arrangement that is preferable to the ordinary sectional iron lavatories. The main objection to the sectional lavatories is the joints, which, no matter how made, form a crevice for dirt, soapy water, etc. With Plate 4154-R all joints are eliminated.

The "Simplex" hanger consists of a cast-iron plate fastened to the wall back of the lavatory. Projections on the lavatory engage the plate, thus forming a permanent and firm support.

	Size 1 20" x 17"	Size 2 24" x 18½"
Set of three "Burton" porcelain-enameled iron lavatories with integral backs and aprons, nickel-plated "Hygeia" waste and the "Simplex" concealed hanger	\$39 00	\$45 00
Add for each additional lavatory	13 00	15 00
Nickel-plated self-closing faucets, with china name-plates, per pair, \$6.00.		
Nickel-plated 1¼" "Economic" trap, each, \$1.75; 1½", \$2.75.		
Nickel-plated 1½" brass waste pipe and 1½" trap with vent for set of two lavatories, \$9.00; for each additional lavatory, add \$3.00.		

Plate 4155-R

THE designs, also the practical features, of our modern porcelain-enameled iron lavatories, are unequaled. The corners and edges are full-rounded throughout. The apron of Plate 4155-R is recessed, imparting to the roll rim a fullness, and to the lavatory in general a fine appearance unattainable with a straight apron.

The "Bedford" porcelain-enameled iron roll-rim lavatory with nickel-plated "Hygeia" waste (plug and chain) and bronzed iron brackets \$15 75
If with painted enameled iron brackets, add \$0.50; if with porcelain-enameled iron brackets, add \$1.15.

Nickel-plated "Syphono" self-closing faucets, each, \$3.25.

Nickel-plated 1¼" "Economic" trap to wall, \$1.75; 1½", \$2.75.

Dimensions: Length, 24"; width, 20"; basin, 14" x 11½"; apron, 5"; distance from wall to front of lavatory, 21½".

NOTE.—The "Bedford" lavatories may be installed in sets of two or more, same as the "Burton."



Plate 4155-R

PUBLIC COMFORT STATIONS—PUBLIC BATHS



Plate 2214-R

The "Universo" imperial porcelain roll-rim French bath, 4' 6" long, with the "Bronx" nickel-plated combination supply and waste fittings, and glazed porcelain legs Class A Class B
 Same, 4' 10" long \$89 75 \$76 75
 Same, 5' 4" inches long 95 75 80 75
 Same, 5' 4" inches long 102 75 87 75
 If with No. 1 exterior finish, white, add \$15.50; if with No. 2 exterior finish, white, add \$10.00; if glazed outside, add \$25.00.
 The "Bronx" fittings have $\frac{1}{2}$ " supply valves.
 Dimensions: Length, 4' 6" outside; weight, 375 pounds. Length, 4' 10" outside; weight, 450 pounds. Length, 5' 4" outside; weight, 550 pounds. The following dimensions apply to all three sizes of baths: Width, outside, 2' 5"; width, inside, 2'; depth, inside, 1' 5 $\frac{1}{4}$ "; height of bath, 19"; height on legs, 23 $\frac{1}{2}$ "; width of roll rim, 2 $\frac{1}{2}$ ".



Plate 2215-R

The "Lenox" enameled-iron roll-rim bath, painted one coat outside, with the "Economic" nickel-plated combination compression faucet with china name-plates, nickel-plated brass connected overflow and waste, rubber stopper and chain 4' 4' 6" 5' 5' 6" 6'
 \$27 75 \$27 75 \$30 25 \$34 25 \$38 75
 If with the "Economic" Fuller faucet instead of compression, same price. If with supply pipes to floor without unions, add \$2.75.
 Dimensions: Lengths given are outside; width outside, 2' 5 $\frac{1}{2}$ "; width of roll rim, 2 $\frac{1}{2}$ "; depth, 1' 5".
 The above baths are suitable for use in the private rooms in public baths described on page 13.

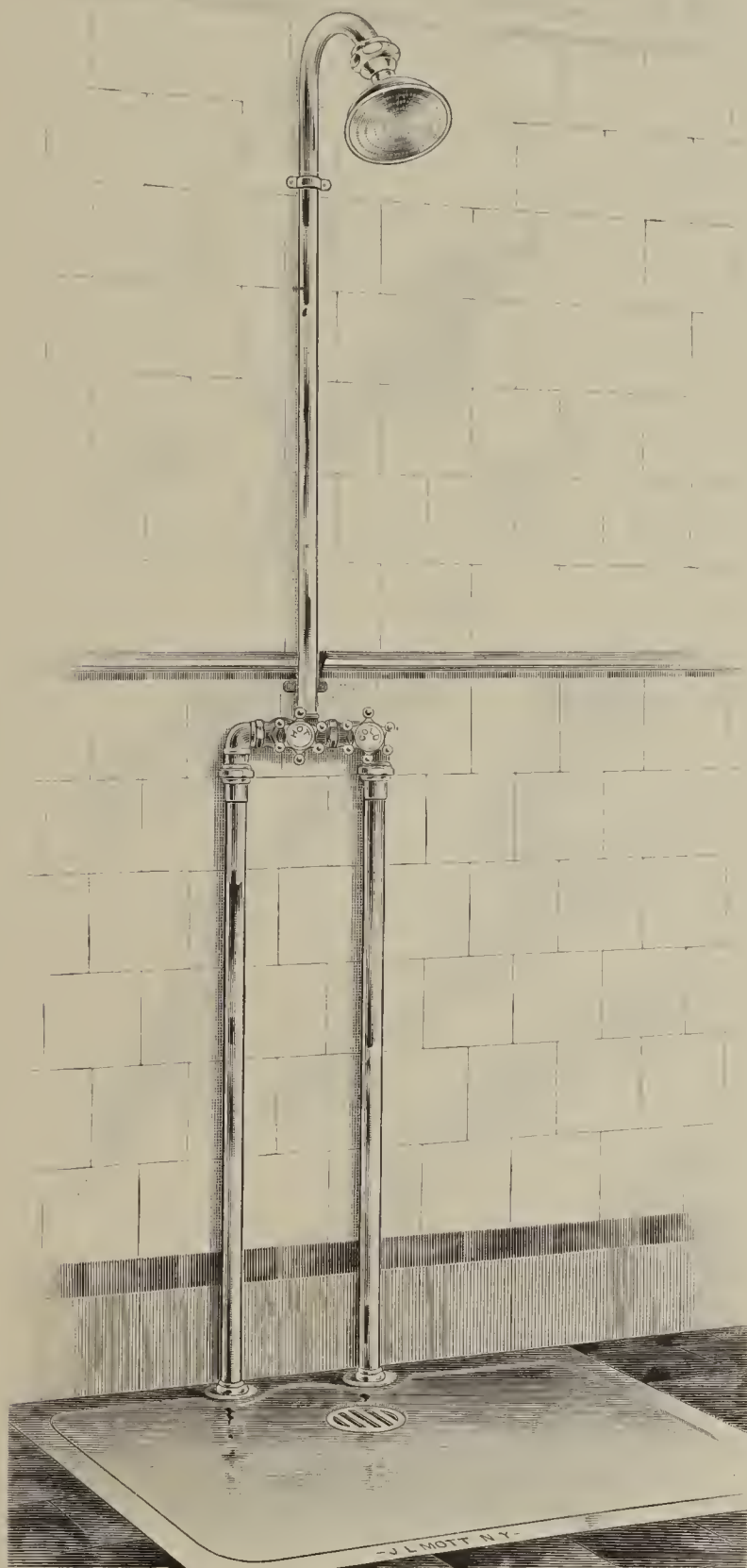


Plate 3007-R

Nickel-plated shower, 5", with adjustable ball joint, with
 $\frac{1}{2}$ " mixing column, $\frac{3}{8}$ " supplies and nickel-plated compression valves with china name-plates \$22 00
 If with 10 $\frac{1}{2}$ " shower, $\frac{3}{4}$ " mixing column and $\frac{1}{2}$ " supplies 27 00



Plate 3008-R

Nickel-plated shower, 5", with adjustable ball joint and Mott's combination hot and cold anti-scalding valve ($\frac{3}{8}$ " supplies, $\frac{1}{2}$ " mixing column) \$35 00
 If with valve in mixing column to control volume, add 2 50
 Same, with $\frac{1}{2}$ " supplies, $\frac{3}{4}$ " mixing column and 10 $\frac{1}{2}$ " shower 42 00
 If with valve in mixing column to control volume, add 2 75

Height, 7' 2". Prices in rough brass and galvanized iron on application.

The combination anti-scalding valve, as its name implies, is intended to prevent accidental scalding while bathing. The hot and cold valves are opened by swinging the handle from the *left* to the *right*. The inside of the valve chamber is such that the handle *cannot* be turned to the *left* but must necessarily be turned to the *right*, in which case the cold water is opened full before any hot water is obtained. By further turning, the hot water is admitted so as to obtain a mixture of hot and cold water.

PUBLIC COMFORT STATIONS—PUBLIC BATHS

	Per Set of Two Size 1	Per Set of Two Size 2	Per Set of Three Size 1	Per Set of Three Size 2	Per Set of Four Size 1	Per Set of Four Size 2
Imperial porcelain roll-rim wash tubs with integral backs (ground), imperial porcelain legs, and wringer base (patented), Class A	\$88 50	\$108 00	\$135 50	\$164 75	\$182 50	\$221 50
Same, Class B	62 50	70 50	96 50	108 50	130 50	146 50
Same, Class C	50 00	54 50	77 75	84 50	105 50	114 50
Same, Colonial	51 00	56 00	79 25	86 75	107 50	117 50

Nickel-plated 1½" brass waste pipe	For Two	For Three	For Four
and 2" trap, extra	\$13 25	\$16 75	\$20 50

Nickel-plated 2" brass waste pipe			
and 2" trap, extra	16 00	21 00	26 00

Nickel-plated ⅝" compression faucets, with china name-plates, per pair, extra, \$4.50; ¾", \$5.00. Nickel-plated ⅝" Fuller pattern faucets, per pair, \$4.00; ¾", \$5.00. Nickel-plated brass waste plug, with nickel-plated stopper, each, extra, \$1.25. Heavy imperial porcelain soap cup, extra, \$1.00. Mott's special wringer, with rolls 2" in diameter, 12" long, extra, \$7.50.

Wringer bases, extra, each, \$5.50.

Dimensions: Size 1, length of each tub from right to left, 24"; space (length) required for two tubs, 4' 1"; for three tubs, 6' 2"; for four tubs, 8' 3". Size 2, length of each tub from right to left, 2' 7½"; space (length) required for two tubs, 5' 4"; for three tubs, 8'; for four tubs, 10' 9"; width from front to back, sizes 1 and 2, 2' 3"; depth inside, 1' 3"; height of back, 6".

NOTE.—The integral backs are recessed at the back with room for the pipes so that the wall need not be cut out; moreover, they are ground to fit against the tile or plaster wall.

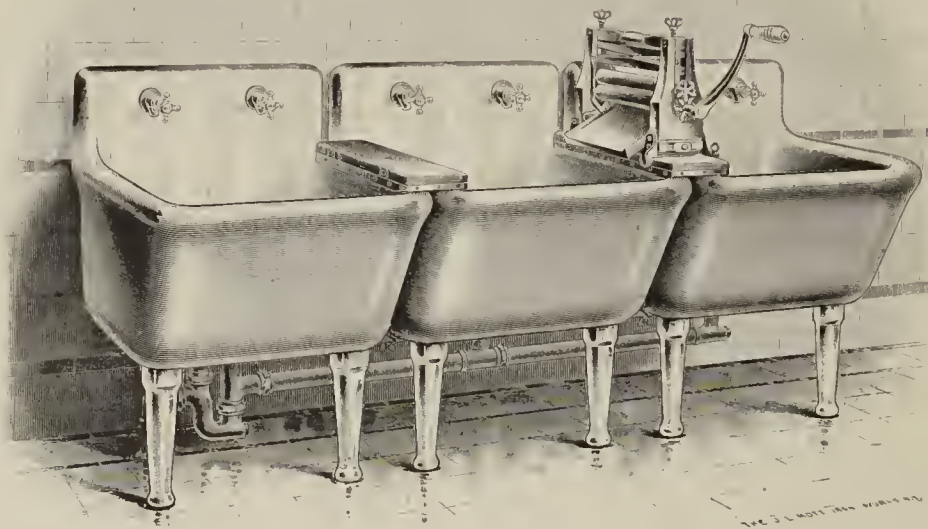


Plate 8112-R

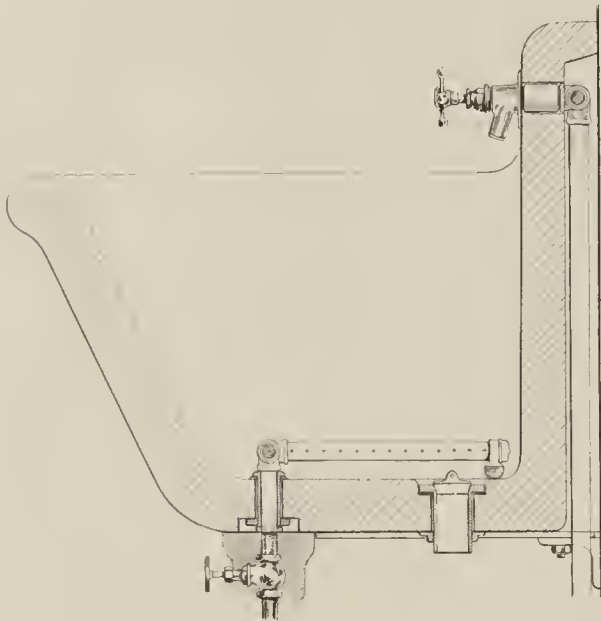


Plate 9117-R

Section through Laundry Tray showing Sterilizer

WHEN a supply of low-pressure steam is available, Mott's sterilizing attachment for laundry trays may be used to advantage. The attachment consists of a coil of perforated brass steam pipe placed in the bottom of the laundry trays, connection being made through the bottom of the tray with the low-pressure steam piping. The flow of steam is regulated by a valve as shown.

By means of this attachment the water in the tray may be maintained at any temperature up to boiling for as long a time as desired, thus permitting of a thorough and satisfactory sterilization of all towels, etc., used about the station.

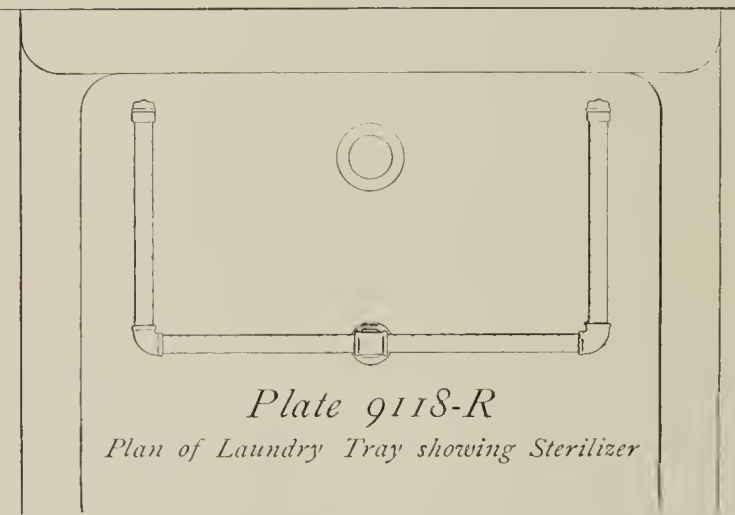


Plate 9118-R

Plan of Laundry Tray showing Sterilizer

Sterilizing attachment, including steam valve, for No. 1 wash tray	\$15 50
Same, for No. 2 wash tray	16 75

Plate 7023-R

	Class A	Class B	Class C
Imperial porcelain roll-rim slop sink, with nickel-plated brass strainer, bronzed iron trap-standard, Mott's nickel-plated ¾" compression faucet, with china name-plate and nickel-plated supply pipe, 20" x 16" x 12" deep	\$37 50	\$31 50	\$26 25
Same, 22" x 18" x 12" deep	41 25	34 00	28 00
Same, 24" x 20" x 12" deep	44 00	36 50	29 25
Colonial sink, as above described, 20"			\$23 50
Same, 22"			25 25
Same, 24"			26 75
Nickel-plated spring rim guard, 20" sink			\$10 75
Same, 22"			11 00
Same, 24"			11 50

Dimensions of sinks are outside, except depth, which is inside.



Plate 7023-R

Plate 9119-R

THE Tobey Automatic Water Heater is composed of two horizontal cylinders from 6' to 8' long, according to size. The upper cylinder contains a perforated copper tube through which all the hot water passes; the hot water expands this copper tube, which operates a lever at the end of the heater and closes the valve when it has reached the desired temperature; a corresponding fall in temperature will immediately contract the copper tube, and so open the valve for a fresh supply of steam. The lower cylinder contains the tubes which receive the steam and transmit heat to the water. One of the flange connections between the upper and lower cylinders is made solid, so that all the cold water entering the lower cylinder must pass along and around the steam tubes before it can escape to the upper cylinder.

The automatic valve consists of the lever, which is acted on by the expansion tube, a balanced double-seated steam valve, and an adjusting device at the top of expansion lever. The adjustment of the temperature is governed by a set-

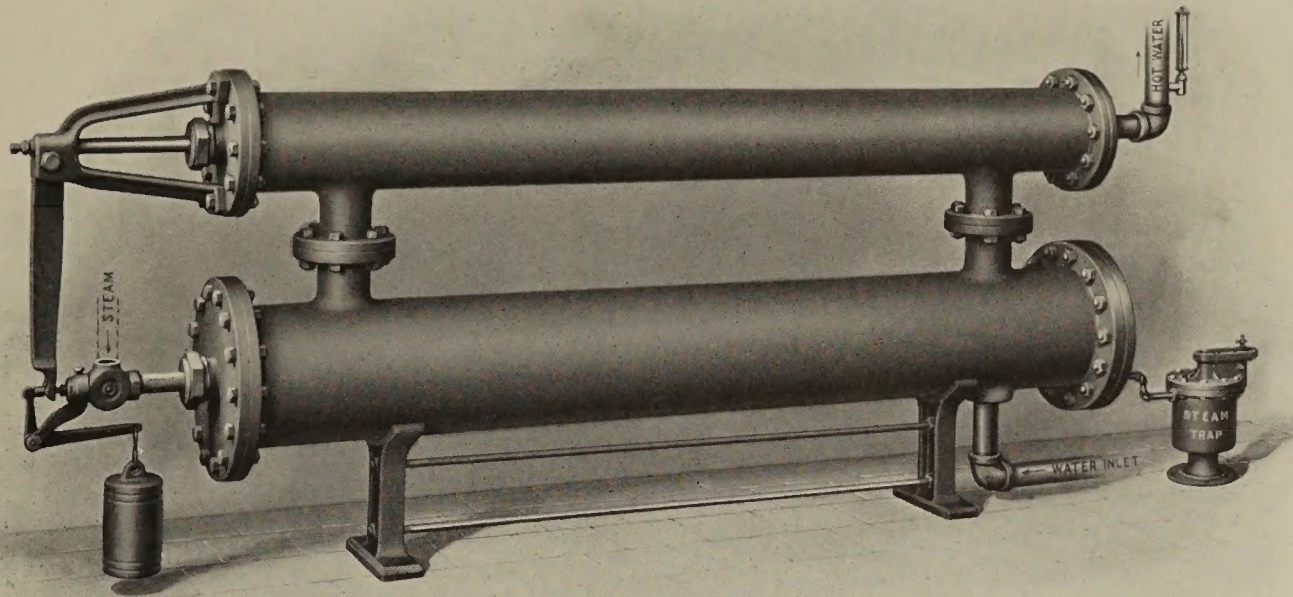


Plate 9119-R

The Tobey Automatic Water Heater

screw, which, when once adjusted, can be locked in position so it cannot be tampered with.

When ordering a Tobey heater be sure you get one large enough for the work to be done, and if you are not sure of the size needed, send us full particulars of what work you want to do, that is, the kind of building it is to be placed in, the number and kind of fixtures that are to be supplied with hot water; also, state the pressure of steam it is proposed to supply the heater with. The heater will work with high pressure, low pressure or exhaust steam, but larger valves are used for exhaust or low pressure than for high pressure. *It should also be remembered that the capacity for low pressure and exhaust steam will be about one-third less than the listed capacities.*

Number	Diameter of Lower Shell in Inches	Diameter of Upper Shell in Inches	Length of Shell in Feet	Number of Steam Tubes	Diameter of Steam Tubes in Inches	Capacity in Gallons per Hour From 50° to 180°	Price	Suitable Size of Tobey Trap
1a	6	4	6	15	$\frac{3}{4}$	1000	\$225 00	1 1/2
1 1/2	9	6	6	30	$\frac{3}{4}$	2000	300 00	2
2	16	8	7	36	1	3000	400 00	2
3	16	8	8	48	1	5000	500 00	2 1/2
4	22	8	8	95	1	10000	975 00	3

Plate 9120-R

The water-cooling apparatus here illustrated is one which will appeal to all as well adapted for use in connection with any public drinking fountain. It is constructed in the following manner:

A casing or well composed of any suitable material, is sunk into the ground flush with the surface. In this casing, which is preferably made of cement, and cylindrical, a coil of pipe is arranged as indicated in cut, so as to leave the central portion of the casing open, and in said central portion, one or more vertically-disposed reservoirs made of galvanized-iron are located. The water enters the coil, runs through the reservoirs and is stored there, and then leaves the cooling apparatus to supply the drinking fountain. The space within the well or casing above the coil or reservoirs, and the spacings between the said reservoirs and the coil are filled with ice which is replenished from time to time; the whole is covered by a non-conducting cover made of wood and by a cast-iron cover made in sections to be easily removed.

The bottom of the well is provided with a drain pipe through which the water resulting from the melting of the ice is drawn off and conducted to the sewer, thereby maintaining a state of dry cold within the well or casing.

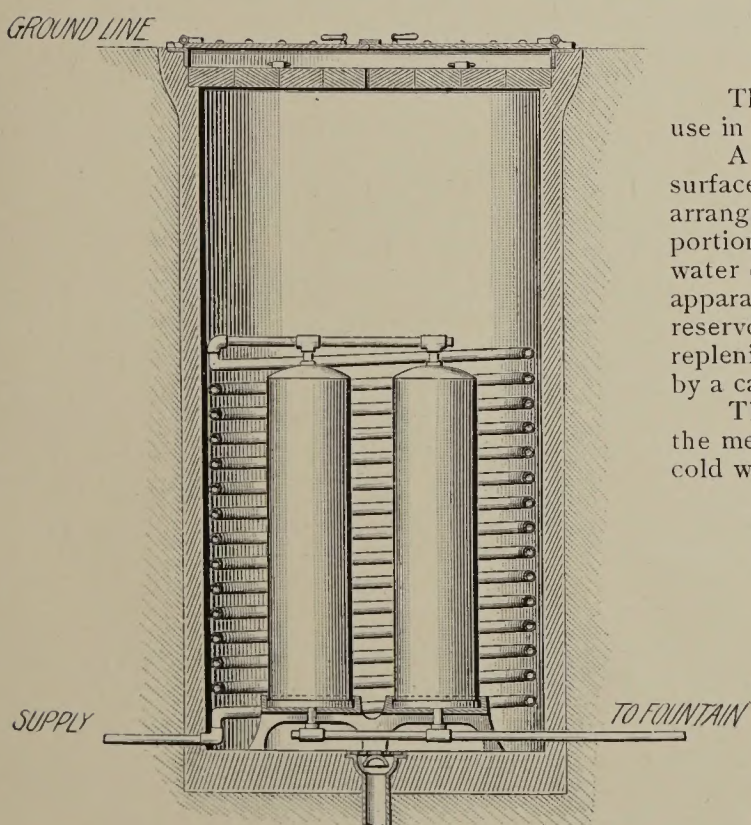


Plate 9120-R

Water-cooling Apparatus

Number	Diameter of Well Inches	Size of Pipe in Coil Inches	Size and Number of Reservoirs, Inches	Price
A	24	1/2	1-48 x 12	\$75 00
B	30	1/2	1-60 x 12	90 00
C	36	3/4	1-60 x 12	100 00
D	48	1	2-60 x 12	175 00

The above prices include the galvanized-iron reservoir with cast-iron support, the coil of galvanized-iron pipe with fittings complete, the cesspool, and the iron cover, but does not include the wooden cover.

IED
C95 \$175.00

PUBLIC COMFORT STATIONS — PUBLIC BATHS

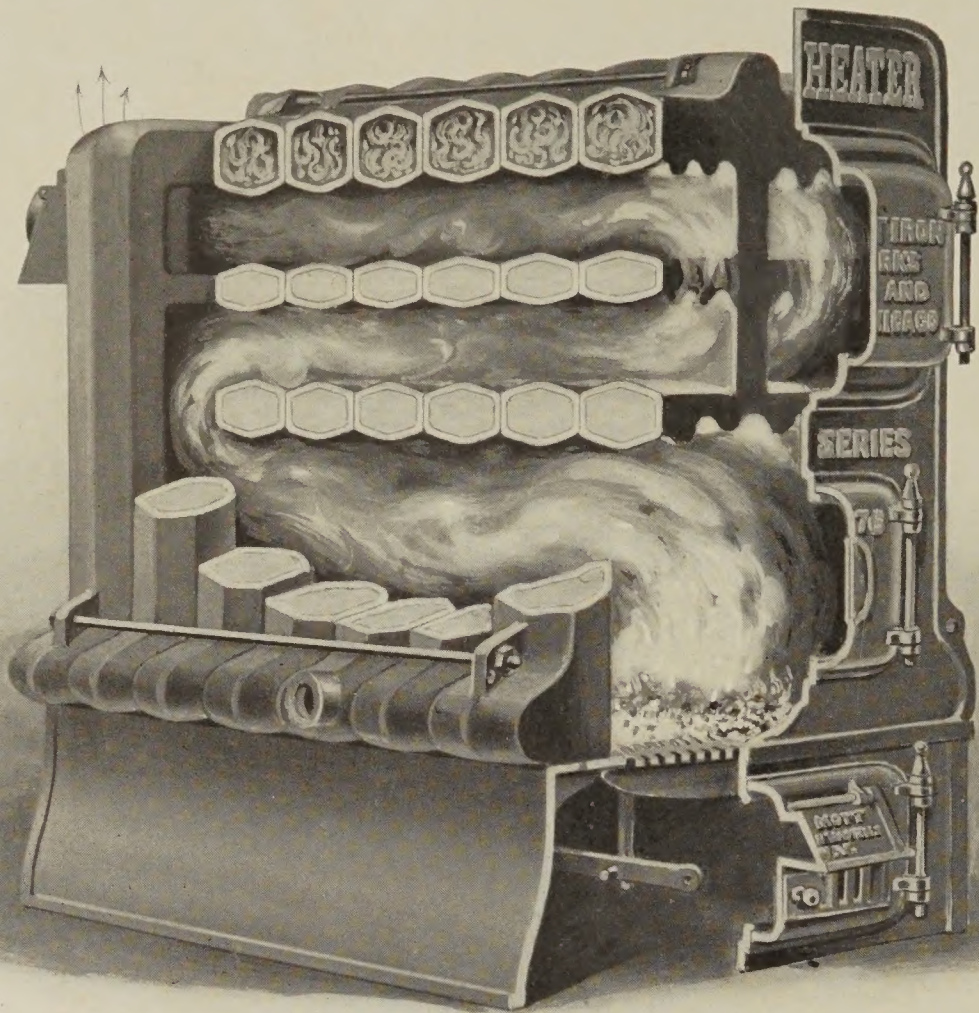


Plate 9121-R

THE above illustration is a sectional interior view of our "SUNRAY" SECTIONAL STEAM BOILER, SERIES 70 AND 90. It is well adapted for use in public comfort stations. As the sections of these boilers are put together with push nipples, and the bolts that hold the sections together are all outside, they cannot be affected by expansion and contraction. The grates used are of a very simple and durable pattern, being made to rest on the independent base so that the sections are not in any way affected by the shaking of the grates. Any bar can be taken out and replaced by another without disturbing the remaining bars, or in any way changing the heater. Though the dimensions of grates are given in the list, it is not absolutely necessary to use them full length of the boilers, as listed. In many cases a direct advantage is gained by shortening up the fire-box. The water passages in the sections of this series are very large and afford quick circulation for the liberation of steam, which is necessary to maintain a steady water line in a steam boiler. The fire-box and the upper part of the flues are corrugated, giving an additional amount of self-cleaning surface over the hottest part of the fire and heated gases.

All parts of the sections in these boilers are heating surfaces of the most effective kind, and we guarantee the heating capacity equal to any sectional boiler on the market, of the same size fire-box and section. The ash pits are large and deep enough to prevent the grates burning out, as so often happens in house-heating boilers. This is in every sense a return-flue safety sectional boiler, and one that any engineer can use with confidence that it will do all the work needed for any possible want.

Sizes and Prices, Series 70

Number	Number of Sections in Boiler	Size of Grate	Height of Boiler	Size of Smoke Pipe	Height of Water Line	Floor Space	Size of Tappings Inches		Direct Water Radiation	Direct Steam Radiation	Price for Water	Price for Steam with Trimmings	Approximate Weight
							Flow	Return					
75	5	24 x 28	58	9	46	37 x 32	2-3	2-3	1100	675	\$292 50	\$302 50	2100
76	6	24 x 34	58	9	46	37 x 38	2-3	2-3	1400	850	345 00	355 00	2400
77	7	24 x 40	58	10	46	37 x 44	3-3	3-3	1700	1025	397 00	407 00	2750
78	8	24 x 46	58	10	46	37 x 50	3-3	3-3	2000	1200	450 00	460 00	3100
79	9	24 x 52	58	12	46	37 x 56	3-3	3-3	2275	1375	502 50	512 50	3450

Series 90

95	5	24 x 30	58	9	46	37 x 32	2-3	2-3	1200	725	\$397 50	\$317 50	2100
96	6	24 x 36	58	9	46	37 x 38	2-3	2-3	1500	900	360 00	370 00	2400
97	7	24 x 42	58	10	46	37 x 44	3-3	3-3	1775	1075	413 00	423 00	2750
98	8	24 x 48	58	10	46	37 x 50	3-3	3-3	2075	1250	465 00	475 00	3100
99	9	24 x 54	58	12	46	37 x 56	3-3	3-3	2350	1425	518 00	528 00	3450

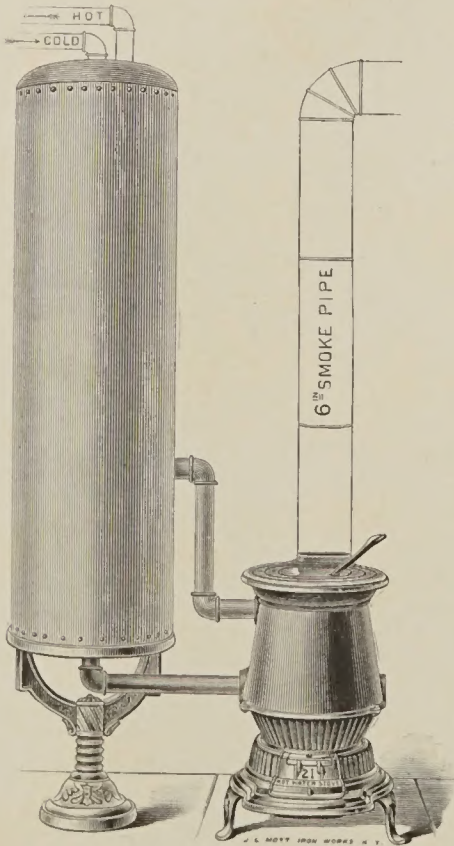


Plate 9122-R

Mott's Hot Water Stove Connected to Range Boiler

All boilers in above list have openings in the back sections for the introduction of a coil, or water back, to furnish hot water. Further information respecting hot water supply, radiators and heating boilers will be furnished on application.

